

# The Johns Hopkins University




CONFERRING OF DEGREES

AT THE CLOSE OF THE

115TH ACADEMIC YEAR

MAY 23, 1991

Hopkins



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As final action cannot always be taken by the time the program is printed, the lists of candidates, recipients of awards and prizes, and designees for honors are tentative only. The University reserves the right to withdraw or add names.





# *Order of Procession*

## **MARSHALS**

Sara Castro-Klaren  
Eliot A. Cohen  
Bernard Guyer  
Lynn Taylor Hebden  
Franklin H. Herlong  
Jean Eichelberger Ivey  
Joseph L. Katz

Peter B. Petersen  
Martin R. Ramirez  
Trina Schroer  
Stella M. Shiber  
Dianne H. Tobin  
James W. Wagner  
Steven Yantis

## **THE GRADUATES**



## **MARSHALS**

Grace S. Brush  
Warner E. Love

## **THE FACULTIES**



## **MARSHALS**

Lucien M. Brush, Jr.  
Stewart Hulse, Jr.

**THE DEANS  
MEMBERS OF THE SOCIETY OF SCHOLARS  
OFFICERS OF THE UNIVERSITY  
THE TRUSTEES**



## **CHIEF MARSHAL**

Noel R. Rose

**THE VICE PRESIDENT OF  
THE JOHNS HOPKINS UNIVERSITY ALUMNI ASSOCIATION  
THE CHAPLAINS  
THE PRESENTERS OF THE HONORARY DEGREE CANDIDATES  
THE HONORARY DEGREE CANDIDATES  
THE INTERIM PROVOST OF THE UNIVERSITY  
THE CHAIRMAN OF THE BOARD OF TRUSTEES  
THE PRESIDENT OF THE UNIVERSITY**

# *Order of Events*

William C. Richardson  
*President of the University, presiding*



## **PRELUDE**

Suite from the American Brass Band Journal  
G.W.E. Friederich (1821-1885)

Suite from Funff—stimmigte blasenda Music  
Johann Pezel (1639-1694)



## **PROCESSIONAL**

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation.



## **FESTIVAL MARCHES**

from “Belshazzar, Floridante, Ezio, Saint Cecilia’s Day, Rinaldo, Scipione and  
Judas Maccabaeus”  
Georg Friedrich Handel  
(1685-1759)



## **THE PRESIDENT’S PROCESSION**

Fanfare  
Walter Piston  
(1894-1976)

Grand Entree from “Alceste”  
Georg Friedrich Handel  
(1685-1759)



## INVOCATION

Van H. Gardner  
*Dean*  
*The Cathedral of the Incarnation*



## THE NATIONAL ANTHEM



## GREETINGS

Morris W. Offit  
*Chairman of the Board of Trustees*



## GREETINGS

Jill Leukhardt  
*Vice President, The Johns Hopkins University Alumni Association*



## PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

James C. Allen	Antonia C. Novello
Camilla Persson Benbow	Gary A. Prinz
Morgan Berthrong	Emil Reisler
David Grob	Michael J.A. Robert-Nicoud
Lewis H. Kuller	James B. Snow, Jr.
Michel F. Lechat	Katepalli R. Sreenivasan
George W. Mitchell, Jr.	G. Rainey Williams
Edward Ming-Yang Wu	

Scholars Presented by M. Gordon Wolman  
*Interim Provost of the University*

## THE FESTIVAL BRASS

Ellery B. Woodworth, Conducting

Domine Salvum Fac Patriam Americam  
Domine Salvum Fac Praesidem Nostrum  
Charles Gounod  
(1818-1893)



## CONFERRING OF HONORARY DEGREES

Thomas B. Turner  
C. Vann Woodward  
Thomas R. Odhiambo



## ADDRESS

Thomas R. Odhiambo  
*Director of the International Centre of Insect Physiology and Ecology, Nairobi, Kenya*



## *Conferring of Degrees on Candidates*

## BACHELORS OF ARTS

*Presented by*

Lloyd Armstrong, Jr.  
*Dean, School of Arts and Sciences*



**BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING**  
**BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING**  
**BACHELORS OF SCIENCE IN CIVIL ENGINEERING**  
**BACHELORS OF SCIENCE IN COMPUTER SCIENCE**  
**BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING**  
**BACHELORS OF SCIENCE IN ENGINEERING MECHANICS**  
**BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING**  
**BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES**  
**BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING**  
**BACHELORS OF ARTS**  
**BACHELORS OF CIVIL ENGINEERING**  
**BACHELORS OF ELECTRICAL ENGINEERING**  
**BACHELORS OF MECHANICAL ENGINEERING**

*Presented by*

V. David VandeLinde  
*Dean, G.W.C. Whiting School of Engineering*



**PERFORMER'S CERTIFICATES**  
**BACHELORS OF MUSIC**

*Presented by*

Robert O. Pierce  
*Director, Peabody Conservatory of Music*



**BACHELORS OF SCIENCE**

*Presented by*

Carol J. Gray  
*Dean, School of Nursing*



**ASSOCIATES OF SCIENCE**  
**BACHELORS OF LIBERAL ARTS**  
**BACHELORS OF SCIENCE**

*Presented by*

Stanley C. Gabor  
*Dean, School of Continuing Studies*



**MASTERS OF SCIENCE  
MASTERS OF LIBERAL ARTS  
MASTERS OF ARTS IN TEACHING  
MASTERS OF ADMINISTRATIVE SCIENCE  
CERTIFICATES OF ADVANCED STUDY**

*Presented by*

Stanley C. Gabor  
*Dean, School of Continuing Studies*



**MASTERS OF SCIENCE**

*Presented by*

Carol J. Gray  
*Dean, School of Nursing*



**GRADUATE PERFORMANCE DIPLOMAS  
MASTERS OF MUSIC  
ARTIST DIPLOMAS**

*Presented by*

Robert O. Pierce  
*Director, Peabody Conservatory of Music*



**MASTERS OF SCIENCE  
MASTERS OF HEALTH SCIENCE  
MASTERS OF PUBLIC HEALTH**

*Presented by*

Alfred Sommer  
*Dean, School of Hygiene and Public Health*



**MASTERS OF INTERNATIONAL PUBLIC POLICY  
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS  
MASTERS OF ARTS**

*Presented by*

George R. Packard  
*Dean, Paul H. Nitze School of Advanced International Studies*

**MASTERS OF ARTS**

*Presented by*

Michael E. Johns  
*Dean, School of Medicine*



**MASTERS OF CHEMICAL ENGINEERING  
MASTERS OF CIVIL ENGINEERING  
MASTERS OF ENVIRONMENTAL ENGINEERING  
MASTERS OF MATERIALS SCIENCE AND ENGINEERING  
MASTERS OF MECHANICAL ENGINEERING  
MASTERS OF SCIENCE  
MASTERS OF SCIENCE IN ENGINEERING  
MASTERS OF ARTS**

*Presented by*

V. David VandeLinde  
*Dean, G.W.C. Whiting School of Engineering*



**MASTERS OF ARTS**

*Presented by*

Lloyd Armstrong, Jr.  
*Dean, School of Arts and Sciences*



**DOCTORS OF EDUCATION**

*Presented by*

Stanley C. Gabor  
*Dean, School of Continuing Studies*



**DOCTORS OF MUSICAL ARTS**

*Presented by*

Robert O. Pierce  
*Director, Peabody Conservatory of Music*



**DOCTORS OF SCIENCE  
DOCTORS OF PUBLIC HEALTH  
DOCTORS OF PHILOSOPHY**

*Presented by*

Alfred Sommer  
*Dean, School of Hygiene and Public Health*



**DOCTORS OF PHILOSOPHY**

*Presented by*

George R. Packard  
*Dean, Paul H. Nitze School of Advanced International Studies*



**DOCTORS OF MEDICINE  
DOCTORS OF PHILOSOPHY**

*Presented by*

Michael E. Johns  
*Dean, School of Medicine*



**DOCTORS OF PHILOSOPHY**

*Presented by*

V. David VandeLinde  
*Dean, G.W.C. Whiting School of Engineering*



**DOCTORS OF PHILOSOPHY**

*Presented by*

Lloyd Armstrong, Jr.  
*Dean, School of Arts and Sciences*





## STATEMENT TO THE GRADUATES

William C. Richardson  
*President of the University*



## BENEDICTION

Gretchen van Utt  
*Chaplain*  
*The Johns Hopkins University*



## RECESSIONAL

March  
C.P.E. Bach  
(1714-1788)

March from LeNozze di Figaro  
Wolfgang Amadeus Mozart  
(1756-1791)

*The audience is requested to remain standing after the  
Benediction until the principals, officials, members of the  
faculties, and the graduates have left the area.*

## *The Johns Hopkins Society of Scholars*

**T**he Johns Hopkins Society of Scholars was created by the University's Board of Trustees on May 1, 1967, on the recommendation of President Milton S. Eisenhower. The society—the first of its kind in the nation—inducts former Johns Hopkins postdoctoral fellows, junior faculty, or visiting faculty who have gone on to marked distinction in scholarship or professional achievement in the physical, biological, medical, social, or engineering sciences or the humanities. At least five years must have elapsed since their formal association with the University. The Committee of the Johns Hopkins Society of Scholars, whose members are drawn in equal numbers from among all the academic divisions of the University, elects the inductees from candidates nominated by the divisions having programs for postdoctoral fellows. New members of the Society of Scholars are invested annually at the time of Commemoration Day, Commencement, or some similar occasion. They are presented with a certificate and a medallion with a black and gold ribbon.

Today, we honor 15 new inductees, invested at a ceremony last evening, who bring the society's membership to 267. They are:

Dr. James C. Allen, chairman of the Department of Medicine at the Medical University of South Carolina. A distinguished clinician and investigator, he made seminal observations as a postdoctoral fellow that led to the finding of the GM allotypes on immunoglobulin heavy chains. Later, in collaboration with Dr. Michael Apicella, he demonstrated the immunopathogenesis of pleural effusions in tuberculosis.

Dr. Camilla Persson Benbow, professor of psychology at Iowa State University. A productive and creative investigator, she received four Hopkins degrees, including a doctorate, by age 24 and was promoted to full professor at Iowa State at 33. She is widely published in educational development and psychology. Formerly a co-director of the Study of Mathematically Precocious Youth at Hopkins, she now directs the study's Iowa State location.

Dr. Morgan Berthrong, pathologist at Penrose Hospitals in Colorado Springs, Colo., and clinical professor of pathology at the University of Colorado and University of New Mexico schools of medicine. Widely known for his definitive published studies of radiation injury, he is regarded as an expert diagnostic pathologist and as an inspiring teacher.

Dr. David Grob, director emeritus of medicine and medical education at Maimonides Medical Center in New York and medical director of the Maimonides Research and Development Foundation. He has long been interested in the physiology and pathophysiology of neuromuscular transmission and in the pathogenesis of myasthenia gravis. In 1982, this research won him the achievement award of the Myasthenia Gravis Foundation.

Dr. Lewis H. Kuller, chairman of the Department of Epidemiology at the University of Pittsburgh Graduate School of Public Health. He is one of the nation's leaders in clinical and chronic disease epidemiology, and has applied epidemiological methods to a wide variety of public health and clinical problems. His publications play a significant role in bridging the gap between epidemiology and clinical medicine.

Dr. Michel F. Lechat, dean of the School of Public Health at Catholic University of Louvain in Belgium. He has served as president of the International Leprosy Association and the International Leprosy Union, and is also director of the Research Center on Disaster Epidemiology at Catholic University of Louvain. He was one of the first to suggest that epidemiologic principles could be applied to improving disaster preparedness and response. He has served as a World Health Organization consultant or adviser in two dozen nations.

Dr. George W. Mitchell Jr., professor of obstetrics and gynecology at the University of Texas Health Science Center at San Antonio. An expert in gynecologic oncology and gynecological surgery, he has set standards and policy at every level within the field of obstetrics and gynecology. His contributions have been recognized by the establishment of a chair in his name at the Tufts University School of Medicine, where he is a former department chairman and now an emeritus professor.

Dr. Antonia C. Novello, surgeon general of the U. S. Public Health Service. She is the author or co-author of more than 75 articles and chapters on public health policy, nephrology, and pediatrics. She is an unflagging advocate of public health training and the need to attract more women and minorities into the field. She continues the tradition of using the office of surgeon general as a platform from which to make important contributions to public knowledge of health issues, including AIDS, smoking, immunization, and, recently, alcohol abuse by college-age students.

Dr. Gary A. Prinz, head of the Magnetic Multilayers Section of the Naval Research Laboratory in Washington. As a postdoctoral fellow, he was the first to observe evidence for coupling between rare-earth ions in an insulating host crystal structure using high resolution spectroscopic measurements. At the Naval Research Laboratory, he was the first to use pulsed molecular gas lasers as sources to carry out magnetic resonance experiments in the far infrared. He was elected a fellow of the American Physical Society in 1984.

Dr. Emil Reisler, chairman of the Department of Chemistry and Biochemistry at UCLA. He is internationally known for insightful work on the biochemical and biophysical properties of the contractile proteins of muscle. He is considered a world leader in using biochemical approaches to clarify the molecular processes in muscle movement and force generation.

Dr. Michel J.A. Robert-Nicoud, professor of cell biology and director of the laboratory of microstructure and nuclear physiology at Joseph Fourier University in Grenoble, France. He is known for pioneering contributions to the study of the cell nucleus, and chromosomes in particular. He is also highly regarded for his application of novel microtechniques to the study and manipulation of chromosomes, and especially for single chromosome microsurgery and confocal microscopy.

Dr. James B. Snow Jr., director of the National Institute on Deafness and Other Communication Disorders. His publications cover the entire range of otolaryngology, including taste and smell, head and neck cancer, and auditory research. His studies on the blood flow of the inner ear, done nearly 20 years ago, are still quoted in the clinical literature. He has been director of the National Institutes of Health's new institute on deafness since 1990.

Dr. Katepalli R. Sreenivasan, chairman of the Department of Mechanical Engineering and professor of mechanical engineering and physics at Yale. An established authority in the field of turbulence, he has, in the past five years, pioneered the application of the new techniques of chaos and fractals to the study of turbulence, opening a new field of research.

Dr. G. Rainey Williams, chairman of the Department of Surgery at the University of Oklahoma College of Medicine. One of the outstanding cardiothoracic surgeons trained by Dr. Alfred Blalock in the 1940s and 1950s, he is one of the few surgeons in the nation who have remained broadly based, performing general as well as thoracic, cardiac, and vascular surgery. He was among the first to successfully perform limb reimplantation.

Dr. Edward Ming Yang Wu, director general of water quality protection in Taiwan. He has, since 1989, supervised Taiwan's water pollution prevention and control efforts and research. He also has done extensive research in mathematical modeling of water quality, environmental systems analysis, water and waste water engineering, and water resources engineering and systems analysis.

*Citation Read by  
Samuel P. Asper  
in Presenting  
Thomas B. Turner  
for the Degree of Doctor of Humane Letters  
May 23, 1991*

Few living today are rooted in Johns Hopkins medicine as deeply as you, or, like you, have personal memories of any of the founding Four Doctors. And no one else can look back on six decades of medical progress and education at this institution from your singular perspective. "Tommy," as you are known to friends and colleagues worldwide, you have spent almost your entire career—nearly 65 years—at Johns Hopkins. You carried the Hopkins name to the Caribbean for research on indigenous diseases. As chairman of the Department of Microbiology in the School of Hygiene and Public Health, you continued your distinguished research and teaching.

Then, in 1957, you became dean of the School of Medicine, the school to which you had not even applied 37 years before, concerned, ironically, that your science background was not strong enough. During 11 years as dean, you guided the school through the greatest expansion in its history, at the same time preserving its tradition of quality and innovative education. On stepping down as dean, you did not step aside. You established the Medical Institutions' Archives; in *Heritage of Excellence*, you published a definitive history of Hopkins medicine. You continued to spur progress in the health sciences by serving on several foundations and commissions. Now in your 90th year and in vigorous good health, your contentment with life is summed up in words from your autobiography: "Medicine as a career is soul stretching in its human demands, mind boggling in its potentialities, and peace giving in its satisfactions."

Thomas B. Turner, with warm affection and in grateful recognition of your unparalleled service to Johns Hopkins and to medicine as physician, scientist, educator, and administrator, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa*.



*Citation Read by  
Grace Goodell  
in Presenting  
Thomas R. Odhiambo  
for the Degree of Doctor of Humane Letters  
May 23, 1991*

Since 1970, you have been known throughout the world as one of the leading scientists and educators in Africa, serving your colleagues, your students, and your countrymen as the founder and first director of the International Centre of Insect Physiology and Ecology in Nairobi, Kenya. Scientists from outstanding universities throughout the world have chosen to work by your side, and have made major breakthroughs while studying insect borne diseases that ravage human, plant, and animal health in the tropics. You personally are known internationally for your research on tropical entomology, but were never content merely to work in your laboratory.

You believe that scientists should serve the world, and you have supported that belief with action. A founder of the International Commission on Food and Peace, chairman of the African Neuroscience Task Force, a trustee of the World Wildlife Fund in Kenya, you are also an inspiration and driving force behind the developing African scientific community. This is evident in your role as founder and first president of the African Academy of Sciences. Your contributions were recognized by UNESCO in 1979 when you received the Albert Einstein Medal. The United Nations has sought you out repeatedly over the years for advice on education, the environment, pest control, and the impact of scientific change on society. You even have introduced science to children through your books. Your accomplishments exemplify the excellence and commitment of the world's finest scientists and hold forth for young people everywhere the highest ideals of intellectual dedication and service.

Thomas R. Odhiambo, in gratitude for your scientific leadership, your tireless service, and your inspiring example as a visionary, humane educator, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa*.

*Citation Read by  
John Higham  
in Presenting  
C. Vann Woodward  
for the Degree of Doctor of Humane Letters  
May 23, 1991*

**F**or more than half a century, your writing and teaching—and that of your students—have defined the history of the American South for every serious scholar in this country and overseas. When you began, Southern history still centered in a golden age before the Civil War, and still told a story of progress and valor on the part of an indomitable, united white race. You turned Southern history into a story of conflict and upheaval, in which all races and classes participated, and every triumph was edged with defeat. All this you shaped into powerful narratives, in language free from pedantry, taut with energy, and flecked with humor and irony. No other book written in the middle decades of the 20th century on any phase of this country's past has survived into the final years of the century so undamaged by subsequent research and criticism as your master work, *Origins of the New South, 1877-1913*, produced (to our everlasting pride) while you taught at Johns Hopkins from 1946 to 1961.

We honor you also for moral engagement in the problems of the present, and most particularly for making your vision of a new Southern history a vital force in the civil rights revolution of our time. Your little book of lectures, *The Strange Career of Jim Crow*, offered a whole generation of American youth a persuasively empirical basis for believing that discrimination and segregation could be overcome. Martin Luther King Jr. was not exaggerating when he called *The Strange Career* "the historical Bible of the civil rights movement." This, too, you accomplished from a chair at Johns Hopkins.

Over the succeeding years, your involvement simultaneously in the work of your profession and the wider issues of American culture has never faltered. C. Vann Woodward, in gratitude for your creative scholarship, dedicated teaching, and enduring advocacy of the principles of equality and freedom, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa*.

## *The University Mace*

The University Mace carried by the Chief Marshal, Dr. Noel R. Rose, was first used at the 1954 Commemoration Day Exercises. Eight symbols are handwrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

## *The Presidential Insignia*

University President William C. Richardson is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the eleven Johns Hopkins University Presidents are engraved on the faces of eleven of the links. On the reverse are engraved the names and dates of office of each President. Five blank links for future use are included. The University Seal completes the design.

## *Academic Dress*

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bellshaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue—Philosophy  
Light blue—Education  
Green—Medicine  
Salmon pink—Public Health  
Orange—Engineering

Gold-yellow—Science  
White—Arts and Letters  
Pink—Music  
Purple—Laws  
Apricot—Nursing

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron—Johns Hopkins	Purple—New York University
Light blue, white chevron—Columbia	Bright red—Wisconsin
Dark blue—Yale	Plum, with scarlet—London
Blue with white chevron—Duke	Maroon—Chicago
Dark blue, two orange chevrons—Illinois	Crimson—Harvard
Light blue, two white chevrons—North Carolina	Carnelian, two white chevrons—Cornell
Old gold, maroon chevron—Minnesota	Cardinal—Stanford
Gold gold—Iowa	Cardinal red and gray—Massachusetts Institute of Technology
Gold, blue chevron—University of California at Berkeley	Red, tri-Chevron in center—Heidelberg
Gold—Virginia	Dandelion yellow—Michigan
Purple, gold chevron—Northwestern	Maize, azure blue chevron—Sorbonne
Carnegie Tartan—Carnegie-Mellon	Yellow and white—Rochester



## *The University Motto*

Veritas vos liberabit.

The truth shall make you free.

*St. John 8:32*



# Awards

## *In the Schools of Arts and Sciences, Engineering and Medicine*

Louis Sudler Prize in the Arts  
for Excellence in the Creative Arts  
*Awarded to Joel Thorp Katz*

## *In the Schools of Arts and Sciences and Engineering*

Roberto R. Arellano Award  
for outstanding achievement in the junior year by a Writing  
Seminars major

*Awarded to Mikos Grieco*

AT&T Outstanding Senior Award in Computer Science

*Awarded to Todd Anthony Mancini*

Louis Azrael Fellowship in Communications  
for demonstrated excellence in a field of mass communications

*Awarded to Amy Melissa Parker*

*Jack Joseph Lipkin*

*Evelyn Ann Jerome*

*Noel Marie LaVallee*

*Harry Milling*

*Larry Hochberg*

Biomedical Engineering Award  
for outstanding effort in research in Biomedical Engineering

*Awarded to Mary Katherine Horner (undergraduate)*

*Zahi Adel Fayad (master's cand.)*

*David O'Shaughnessy (master's cand.)*

*Kamal Vij (master's cand.)*

Alexander Butler Prize  
for the best research paper by a first year graduate student in History

*Awarded to Douglas Charles Rossinow*

Mary Farrell Camerer Award  
for outstanding achievement in the junior year by a Writing  
Seminars major

*Awarded to Elin Hilderbrand*

Eugenio and Patricia Castillo Award  
to the best first or second year graduate student in Economics

*Awarded to Alain D'Hoore*

Chemical Engineering Undergraduate Research Award  
for demonstrated contributions to research in Chemical Engineering

*Awarded to Kevin J. Ledger, Jr.*

Civil Engineering Award  
for outstanding achievement by a senior in Civil Engineering

*Awarded to Bennett Scott May*

G. Stanley Hall Prize  
for outstanding achievement by an undergraduate in Psychology

*Awarded to Jennifer Peverly*

The Max Hochschild Fund

The prize is awarded annually to the undergraduate student in Business  
and Industrial Management who has shown the greatest promise and  
proficiency in this field and is

*Awarded to David Schwartz*

The Jacob H. Hollander Prize  
for excellence in writing by a Writing Seminars junior

*Awarded to Timothy Donnelly*

The 3 Arts Club of Homeland Award  
for outstanding achievement in the Writing Seminars

*Awarded to Craig Bernardini*

William H. Huggins Award  
for outstanding service and achievement by a senior and junior in  
Electrical and Computer Engineering

*Awarded to Choon Kiat Goh (Class of '91)*

*Howard G. Stephan (Class of '92)*

IBM Outstanding Undergraduate Award in Computer Science

*Awarded to Aaron David Redish*

Adolf Katzenellenbogen Memorial Prize  
for outstanding work in Art History

*Awarded to Maria Elizabeth Gough*

*Stanko Kokole*

Donald E. Kerr Memorial Medal  
to the outstanding undergraduate major in Physics and Astronomy

*Awarded to Martin B. Stemmler*

Arthur Kouguell Prize  
to the outstanding undergraduate major in History

*Awarded to Jonathan Missner*

*Jonathan Roberts*

Ernest M. Marks Award  
in recognition of excellence in instruction and research in Chemistry

*Awarded to Susan T. Arnold*

*Sandra Song*

Mathematical Sciences Achievement Award  
for outstanding achievement by an undergraduate

*Awarded to Noah Estrin*

Paul A. McCoy Prize  
for the most distinguished masters essay in Political Science

*Awarded to James Wiley*

The William D. McElroy Award  
for meritorious research conducted by an undergraduate in the  
biological sciences

*Awarded to Andrew Chuen  
Daniel Weaver*

Ehezriel Naddor Postdoctoral Fellowship  
to a graduating Ph.D. student in Mathematical Sciences with an  
outstanding record in research and superior promise  
for an academic career in research and graduate teaching

*1991-92 Fellow: Ann N. Trenk*

Robert B. Pond, Sr., Achievement Award  
to the graduating senior in Materials Science and Engineering who  
best exemplifies Professor Pond's commitment to scholarly and humane  
values

*Awarded to Jacob Friedman*

President's Commendation for Achievement in the Arts  
for outstanding contributions to the Arts in the Johns Hopkins  
Community by graduating seniors

*Awarded to Jeremy Blynn*

The Curt P. Richter Award in Behavioral Biology  
in recognition of outstanding achievement in the Behavioral Biology  
Program

*Awarded to Cathy Lomelino*

Sarah & Adolph Roseman Achievement Award  
in recognition of outstanding accomplishment in Chemistry

*Awarded to Min Li  
Harry W. Sarkas*

Roulston Prize  
for outstanding achievement and excellence in German  
*Awarded to Thomas Sebastian*

Julian C. Stanley Award  
for the undergraduate psychology major who most closely  
approximates Dr. Stanley's personal and professional standards of  
excellence

*Awarded to Susan Stoner*

The J.J. Sylvester Prize  
for outstanding achievement by a senior in Mathematics  
*Awarded to David Andrew Schwartz*

Robert W. Tucker Award  
for the most distinguished senior thesis in International Studies  
*Awarded to Jennifer R. D'Urso*

Julius Turner Prize  
for the most distinguished senior thesis in Political Science  
*Awarded to Matthew Bosworth*

The John Boswell Whitehead Award  
for outstanding achievements by an undergraduate in Electrical  
and Computer Engineering  
*Awarded to Thomas S. Sosnowski (Class of '91)*

Loy Wilkinson Award  
for a demonstrated record of academic excellence, leadership, and  
service in Chemical Engineering  
*Awarded to Laura E. Balog  
Shari H. Zuskin*

## *In the Peabody Conservatory of Music*

The Baltimore Music Club Award in Accompanying  
*Awarded to Sandra Murray*

*The Rose and Lou Becker Prize in Violin*  
*Awarded to Christian Colberg*

The Martha and William Bill Memorial Prize in Clarinet  
*Awarded to Charlene Critcher*

The P. Bruce Blair Award in Composition  
*Awarded to Paul J. Zdunek*

The George Castelle Prize in Voice  
*Awarded to Kelly Hyleh, Allison Charney and Steven Marking*

The Israel Dorman Prize in Strings  
*Awarded to Sze-Long Wong*

The Anita Erdman Prize in Opera  
*Awarded to Melinda Zagarino*

The Pauline Favin Prize in Piano  
*Awarded to Nak Bjerken*

The Lillian Gutman Prize in Piano  
*Awarded to Lori Kaufman*

The Hos Award in Guitar  
*Awarded to Matthew Gould*

The Josef Kaspar Prize in Violin  
*Awarded to Li Qing*

The Gustav Klemm Award  
*Awarded to Steven Hilmy*

The Irving Lowens Prize in Music Criticism  
*Awarded to Peter Krask*

The Maryland State Music Teachers Association Award  
*Awarded to Philip Hale*

The Rose Marie Milholland Prize in Piano  
*Awarded to Claudia Chen and Ivana Svarc*

The Ada Arens Morawetz Prize in Composition  
*Awarded to Christopher Mandra*

The Otto Ortmann Prize in Composition  
*Awarded to Gary Michael Brown*

The Christopher Percy Award  
*Awarded to George Colligan*

The Harold Randolph Prize in Performance  
*Awarded to Elizabeth Lawrence*

The Randolph S. Rothschild Award in Composition  
*Awarded to Joshua Fineberg*

The Alice and Leary Taylor Prize in Performance  
*Awarded to Deborah Boldin*

The Zaidce T. Thomas Prize in Voice  
*Awarded to Robin Bourguignon*

The Zaidce T. Thomas Prize in Instrumental Performance  
*Awarded to Kuljit Rehncy and Michael Center*

The Annie Wentz Prize in Voice  
*Awarded to Rebecca Broberg*

## *In the School of Medicine*

### **The Henry Strong Denison Scholarship**

The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation.

*Awarded to Laura Joan Balcer—1989-90*

*Leslie John Bisson—1990-91*

*Leonidas George Koniaris—1990-91*

*Jane Anoush Oski—1988-89*

*Dante Joseph Pieramici—1990-91*

### **Sandoz Award**

*This award provided by the Sandoz Pharmaceutical Company recognizes excellence in the field of Pharmacology.*

*Awarded to Barbara Stauch Slusher—1990-91*

### **Laurel and Clarence H. Koennecke Award**

The Laurel and Clarence H. Koennecke Award was established to recognize those students showing most promise in the surgical field of Gynecology.

*Awarded to Cecilia Mary King—1990-91*

### **The Franklin Paine Mall Prize In Anatomy**

The Franklin Paine Mall Prize in Anatomy established by Dr. Miley B. Weston, an alumnus of the School of Medicine, is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine.

*Awarded to Leslie John Bisson—1987-88*

*Jennifer Bupp Meko—1987-88*

*Masako Shimamura—1987-88*

### **The Paul Ehrlich Awards**

The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day.

### **The Paul Ehrlich Graduate Student Award**

*Awarded to Kan Liao—1990-91*

### **The Paul Ehrlich Research Award**

*Awarded to Robert Steven Sikorski—1990-91*

### **Michael A. Shanoff Research Award**

The award is made annually to a student for significant research contribution in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from The Johns Hopkins University.

*Awarded to Philip Arthur Cole—1989-90*

*Tamara Lea Doering—1990-91*

*William Harvas Landschultz—1988-89*

### **The David Israel Macht Memorial Prize**

The David Israel Macht Memorial Prize was established in 1983 by the family of Dr. Macht to commemorate the centenary of his birth. Dr. Macht was a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and was a pioneer investigator in the field of opiate alkaloids. The prize is intended to recognize excellence in investigation by a student in the School of Medicine.

*Awarded to Nikola P. Pavletich—1990-91*

### **Harold Lamport Biomedical Research Prize**

The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research contributions.

*Awarded to Michael Patrick Boyle—1990-91*

*Adrienne Laura Richards—1990-91*

### **CIBA Award for Outstanding Community Service**

The CIBA Pharmaceutical Company makes a yearly award to that student in the second year of the School of Medicine who is judged by classmates to have made the greatest contribution to our community.

*Awarded to Susan Dona Cummings—1987-88*

*Edward Paul Jenkins, Jr.—1988-89*

## *In the School of Hygiene and Public Health*

### **Alumni Association Scholarship Award to students of outstanding promise**

*Awarded to Alison Snow Jones (1985)*

### **Erwin Shayne Benjamin Award**

for outstanding student research in the field of congenital birth defects and/or childhood disabilities

*Awarded to Christina August Hecht (1990)*

### **Ruth B. Freeman Award**

to a graduating doctoral nurse to recognize academic performance and an outstanding thesis

*Awarded to Mary Lou Rorabaugh*

### **Paul A. Harper Award**

to degree candidates in the Department of Population Dynamics to recognize both achievement and promise of contributions to the field of population

*Awarded to Dileep Vishnu Mavalankar (1990)*

*Karungari Kiragu*

*XiYan Zhao*

### **John C. Hume Doctoral Award**

to a graduate for significant research in the Department of Health Policy and Management

*Awarded to Alison Snow Jones*

### **John C. Hume Masters of Public Health Award**

to a graduate for academic excellence and professional promise

*Awarded to Ellen M. Hutchins*

*Gianfranco Pezzino*

### **Cornelius W. Kruse Award**

for scholarly excellence in Environmental Health Sciences

*Awarded to Lorraine Evelyn Cathers Twerdok*

### **Harry D. Kruse Award**

for outstanding doctoral research in the field of nutrition and public health

*Awarded to Siti Norazah Zulkifli (1988)*

### **Long and Widmont Memorial Foundation Award**

for outstanding dissertation research and professional promise

*Awarded to Alexander F. Ross (1989)*

### **John P. Young Memorial Prize**

for the best student paper in the field of health finance economics

*Awarded to Charles Brace Reuland (1990)*

*Jane Harriet Forman*

## *In the School of Nursing*

Emma Jones Beckwith Cullen Award  
in recognition of the highest standards of nursing practice and executive ability

*Awarded to Suzie Ann Blevins and Susanna Elizabeth Hathaway*

Eleanor Wade Custer Award  
to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellowman

*Awarded to Becky Lynn Ross*

Betty Cutlbert Award  
to a student who demonstrates outstanding commitment and service to nursing and the University

*Awarded to Susanna Elizabeth Hathaway*

Mary and Grainger Marburg Award  
in recognition of a student who consistently exhibits outstanding clinical nursing expertise

*Awarded to Ruth Henry Geissler*

Robert G. Merrick Award  
to a student demonstrating outstanding leadership in the field of nursing

*Awarded to Suzie Ann Blevins*

Ruth Dale Ogilby Award  
in recognition of exceptional academic performance in the Master's program

*Awarded to Laura Sheely and Mary Ann White*

Edna Schoen Memorial Award  
to a student demonstrating excellence in clinical practice

*Awarded to Kim Elizabeth Mudd*

Joan Sutton Award  
to a student demonstrating a strong dedication to professional nursing, clinical excellence and interdisciplinary practice

*Awarded to Margaret Mary McLaughlin*

Academic Excellence Award  
to a student whose academic performance has been judged to be outstanding

*Awarded to Ellen Waff and Paula Winik*

Research Award  
to a student demonstrating intellectual curiosity and creativity in nursing research

*Awarded to Nancy Elizabeth Bolan*

The Church Home and Hospital Nursing Alumnae Award  
recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing

*Awarded to Lisa Marie Shook*

The Johns Hopkins Nurses' Alumni Association Award  
recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind

*Awarded to Heather Marie Spooner*

Sinai Nurses' Alumnae Association of Sinai Hospital, Inc. recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing

*Awarded to Rosanna Lynn Bacon*

## *In the School of Continuing Studies*

Delta Sigma Pi Scholarship Key  
in the Division of Administration and Business for the highest average in the undergraduate programs

*Awarded to Kathleen Alice Kovaly*

Edward J. Stegman, C.P.A., Memorial Award  
in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level

*Awarded to Linda Droter Bailey*

*Mark Albert Bassett*

*Christine Ann Fonder Bruccio*

*Carol Stephenson Bullock*

*Michael George Chaconas*

*Lewis L. Cox, Jr.*

*James Thomas Crider*

*Glen Davis*

*Maria Jocelissa*

*Tan-Gatue del Rosario*

*Robert Jeffrey Evans*

*Kenneth E. Fahnestock*

*John William Ferkany*

*D. Danielle Ferris*

*Robert Milton Geldmacher*

*Michael I. Haas*

*Adrienne Townes Haden*

*Louise H. Hanson*

*Pamela Jayne Heck*

*Eugenia Klikna-Kokes*

*Stefanie M. Light*

*Robert Edward Limmer*

*James Lynn Matlack*

*Kelly Potter Mobley*

*Margaret McCarthy Murphy*

*Mary Alice Robinson*

*Barbara Stauch Shusher*

*Tressa Bailey Springmann*

*Tracey Anne Steinberg*

*Laura Marie Tillman*

*F. Faith Vance*

*Brian M. Varney*

*Patricia deLorenzo Wafer*

*Lisa Ann Wetzel*

*Diane Wojciechowski*

*Michelle Judith Wright*

Wall Street Journal Student Achievement Award  
in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success

*Awarded to Phyllis B. Jensen*



## *In the Paul H. Nitze School of Advanced International Studies*

### William C. Foster Award

to a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster

*Awarded to John Kremer IV*

*Jeffrey Brall Lilley*

*Edith P. Quintrell*

### Christian A. Herter Fellowship

to the member of the second year class with the most outstanding record during the first year

*Awarded to Anneke Jessen*

*Todd Turner Schneider*

## *Honor Societies*

### *Phi Beta Kappa*

#### *From the Junior Class in the School of Arts and Sciences*

William Harold Aaronson  
Daniel Louis Abrams  
Eric Arends

Craig Henry Bassing  
Jeanne Marie Grunwell  
Misop Han

David Joseph Istvan  
Jeffrey Scott Morgheim  
Jay Hong Park

#### *From the Senior Class in the School of Arts and Sciences*

##### *Elected in 1989-90*

Vincent Paul Briscuso  
Jonathan Allan Clark  
Matthew Edward Cunningham  
Michael Bradley Datto

Paul Alexander Kramer  
David Edward Liss  
Alison Michele Samitt

David Michael Shaw  
Martin B. Stemmler  
Thomas Hyunsop Woo

##### *Elected in 1990-91*

Max Ahn  
Russell Tod Alexander  
Ali Bahadori  
Clay Elliott Beveridge  
Prakash K. Bhuyan  
Matthew Herrick Bosworth  
Kenneth Brock Bowman  
Stephen Douglas Brown  
Joseph Patrick Buffington  
Thomas Barnett Cleary  
Norvin Aaron Clontz II  
Jennifer Rebecca D'Urso  
Elisabeth Morrison Dahl  
Nellie Bernadette DeShetler  
Rory Cooke Dicker  
Thomas Dreyfus Dretler  
Jon Christopher Driscoll

Jason Michael Fisher  
Lori Sue Fleming  
Mark Joseph Friedman  
John Anthony Gillespie  
Allen Tracy Grisson  
Jeffrey Curtis Grossman  
James Delos Hadley  
Edith Emily Haritatos  
Elin Ruth Hilderbrand  
David Jay Hirsch  
Everett Hsu  
Cecily Meredith Hurst  
Jill Marie Kress  
David Sunjin Lee  
Jin Sung Lim

Kek Khee Loo  
Michael William Morris, Jr.  
Tamara Susan Paragino  
Jennifer Rose Peverly  
Yuri Ann Saito  
David Andrew Schwartz  
Laura Isabelle Smith  
Paris Spanolios  
Cristian Roberto Tampe  
Drew Avedis Torigian  
Jennifer Ejen Tseng  
Peter Joseph Uddo  
Karen Ann Wendel  
Demark Lee Winget  
Judith Wood

#### *From the Doctor of Philosophy Candidates in the School of Arts and Sciences*

Carole Jean Spangler

Michimasa Tanabe

#### *From the School of Medicine*

Leslie John Bisson

Kristin Lynn Weber

#### *From the School of Hygiene and Public Health*

Kanta Alvi

Alison Snow Jones

Xin-Hua Liu

# *From the Paul H. Nitze School of Advanced International Studies*

Erin Keown

Russell Lawrence Stein

\*Pink and blue ribbons worn on candidates' robes indicate their induction in Phi Beta Kappa.

## *Tau Beta Pi*

### *National Engineering Honor Society*

#### *From the Junior Class in the G.W.C. Whiting School of Engineering*

Steven Bierer  
Gerald Brann  
Raymond Chan  
Christopher Chen  
Wendy Chiu  
Crist Clark

David M. Hall  
Jason Heth  
Sachiko Hirose  
Sandeep Jain  
Jean Lin  
Jonathan Lowthert

Pankaj Merchia  
Sandeep K. Singhal  
Howard Stephan  
Anthony Stratakos  
John H. Wang  
Jeff Wolbach

#### *From the Senior Class in the G.W.C. Whiting School of Engineering*

##### *Elected in 1988-89*

Manish Arvind Shah

#### *From the Senior Class in the G.W.C. Whiting School of Engineering*

##### *Elected in 1989-90*

Subrat Biswal  
Robin Valerie Blasberg  
Alberto Miguel Cairo  
James Chang  
Daryl Ming Chen  
Stephen Chong  
David Yongsik Chung

Richard Bradley Dause  
Edward Pettei Davis  
Choon Kiat Goh  
Gary Evan Hsieh  
Kristie Lee Kantowski  
Peter Junghan Kim  
Danielle Joanne Marchione

Bennett Scott May  
Joseph Daren Neff  
Eve Parojcic  
Cynthia Amy Quan  
Glenn H. Sabin  
Robert Paul Silverman  
Thomas Staubsach Sosnowski

##### *Elected in 1990-91*

Hal Bowman  
Floyd Andrew Bullard  
Dennis Hawkon Chang

Thomas Edwards  
Jeffrey Alan Hertz

Susan Ellen Moyher  
Susan Lynn Roweton

#### *From the Part-Time Engineering Program*

Alan D. Chiarito  
Robert S. Rider

John S. Fitzhugh, Jr.  
Alice F. Lium

Douglas T. Yoest

## *Alpha Omega Alpha*

### *Honor Medical Society*

Lisa Shoshana Abrams  
Katrina Alison Armstrong  
Leslie John Bisson  
Eric Jason Cohen  
Kathy Sue Durham  
Martin Gary Edwards  
John Michael Kane III

Tony Wei-hsiu Ho  
William Harras Landschulz  
Todd Michael Lasner  
Mary Robertazzi Mailloux  
Jennifer Bupp Meko  
Melissa Sue Pessin  
Dante Joseph Pieramici

Jeanne Marie Santoli  
Margot Anne Schwartz  
Mark Alan Silberman  
Ajay Verma  
Kristin Lynn Weber  
Karl Arthur Wolff IV  
Belinda Yun-Mae Yim

*Delta Omega*  
*National Public Health Honor Society*

Sandro Accorsi  
Kanta Alvi  
Shams El Arifeen  
Ross Joseph Brechner  
Mary Jean Cismowski  
Susan E. Coffin  
Ana Victoria Diez Roux  
Jane Harriet Forman  
Paul Alan Gaist  
Sarah Claudette Hayward  
John David Hundt  
Alison Snow Jones

Barnett Sheldon Kramer  
Xin-Hua Liu  
Proscovia Lubega  
Theodore George MacKinney  
Susan Beth Manoff  
Fokke Meima  
Mark Allen Melanson  
Pascal Claude Ortiz  
Theresa Jeanne Reinhart  
Charles Brace Reuland  
James Richard Riddle

Patricia Robbins Robuck  
John Ruthinoski  
Gerald Stephen Scholl  
William G. Sciarillo  
Nicole Sharon Simmons  
Agnes Laure Bernadette Soucat  
Eric Stewart Starbuck  
Robert Milton Stephens  
Lorraine Evelyn Cathers Twerdok  
Joan L. Valentine  
Xiaobin Wang  
Virginia Marie Weaver  
Elizabeth A. Zenger

*Pi Kappa Lambda*  
*National Music Honor Society*

Charles Ronald Ellis      Mark Marcham

# Honors

*Baccalaureate Candidates in the School of Arts and Sciences*  
*Graduating with General Honors*

Max Ahn  
Natalie Jae Albert  
Russell Tod Alexander  
Ali Bahadori  
Clay Elliott Beveridge  
Molina Bhatnagar  
Prakash K. Bhuyan  
Matthew H. Bosworth  
Vincent Paul Briscuso  
Stephen Douglas Brown  
Joseph Patrick Buffington  
Thomas Barnett Cleary  
Norvin Aaron Clontz II  
Charles Francis Connolly  
Matthew Edward Cunningham  
Elisabeth Morrison Dahl  
Michael Bradley Datto  
Samuel Kang-Nien Dawn  
Nellie Bernadette DeShetler  
Rory Cooke Dicker  
James Roy Diener  
Thomas Dreyfus Dretler

Jon Christopher Driscoll  
Jennifer R.M. D'Urso  
Lisa Feldmann  
Sharon Rebecca Fine  
Jason Michael Fisher  
Mark Joseph Friedman  
John A. Gillespie  
Kathleen Louise Green  
Allen Tracy Grisson  
Jeffrey Curtis Grossman  
Erica Evette Gum  
David Henry Hackos  
James Delos Hadley  
Fariba Makarehchian Hamedani  
Edith Emily Haritatos  
Elin Ruth Hilderbrand  
David Jay Hirsch  
Alice Jiayi Ho  
Sharyn Elise Horowitz  
Everett Hsu  
Stephen Eahl Kim

Jill Marie Kress  
Richard Chin-Hung Kuo  
David Matthew Laser  
David Jung An Lee  
David Sunjin Lee  
Olivia Lerner  
Jin Sung Lim  
David Edward Liss  
Kek Khee Loo  
Mark Darius Robert Maneche  
Shoshana Miriam Miller  
Michael William Morris, Jr.  
Tamra Lynn Myers  
Shane S. Pak  
Jennifer Rose Peverly  
Robert Francis Porcarelli  
Geetha Shiva Rao  
Adrienne Rencic  
Andrew Chamberlin Rieser  
Jonathan Abram Roberts  
Bess Allison Rose

Amit Pratim Saha  
Yuri Ann Saito  
Alison Michele Samitt  
David Andrew Schwartz  
David Michael Shaw  
Russell Matthew Silber  
Laura Isabelle Smith  
Paris Spanolios  
Martin Bernard Stemmler  
Olivia Wai-Wen Suan  
Cristian Roberto Tampe  
Drew Avedis Torigian  
Jennifer Ejen Tseng  
Peter J. Uddo  
Jennifer Beth Unger  
Ravi Kumar Veeraswamy  
Karen Ann Wendel  
Laurell Lynda Wiersma  
Demark Lee Winget  
Thomas Hyunsop Woo  
Judith Wood  
Arthur Chiakaj Young

*Baccalaureate Candidates in the G.W.C. Whiting School of Engineering*  
*Graduating with General Honors*

Garrick Ahn  
Subrat Biswal  
Robin Valerie Blasberg  
Hal Bowman  
Floyd Andrew Bullard  
Alberto Miguel Cairo  
Dennis Hawkon Chang  
Daryl Ming Chen  
Stephen Chong  
David Yongsik Chung  
Debra Lee Cook

Richard Bradley Dause  
Edward Pettet Davis  
Sean Michael DiGiovanna  
Noah Gabriel Estrin  
Choon Kiat Goh  
David Michael Hall  
Jon Eric Hastings  
Jeffrey Alan Hertz  
Gary Evan Hsieh  
Toby Haruki Inoue  
Kristie Lee Kantowski

Peter Junghan Kim  
Sean S.H. Kim  
Kevin John Ledger, Jr.  
Jonathan Edward Lowthert  
Geir Magnusson, Jr.  
Danielle Joanne Marchione  
Bennett Scott May  
Susan Ellen Moyher  
Joseph Daren Neff  
Eve Parojcic  
John Cheng Kang Pui

Cynthia Amy Quan  
Aaron David Redish  
Susan Lynn Roweton  
Glenn H. Sabin  
Manish Arvind Shah  
Saurabh Narendra Shah  
Robert Paul Silverman  
Monique Louise Slater  
Thomas Staubsach Sosnowski  
Melody Ann Swartz

## *Baccalaureate Candidates in the School of Arts and Sciences*

### *Graduating with Departmental Honors*

Prakash K. Bhuvan  
Matthew H. Bosworth  
Stephen William Bretz  
Stephen Douglas Brown  
Joseph Patrick Bullington  
Thomas Barnett Cleary  
Charles Francis Connolly  
Matthew Edward Cunningham  
Michael Bradley Datto  
Jennifer R.M. D'Urso  
Lorin Michael Engquist  
Lisa Feldman  
Michelle Ilit Fellner  
Albert James Fessler  
Jason Michael Fisher  
Gregory William Fortsch  
Mark Joseph Friedman

Kelly Ann Gebo  
Robert Edward Glatz  
William Mark Goodwin IV  
Kathleen Edwards Green  
Allen Tracy Grisson  
Jeffrey Curtis Grossman  
Erica Evette Gum  
David Henry Hackos  
Edith Emily Haritos  
Elin Ruth Hilderbrand  
Todd Franklin Jackson  
Edward Patrick Johnson  
Kirsten Rae Johnson  
Richard Chin Hung Kuo  
David Sunjin Lee  
Olivia Lerner

Jin Sung Lim  
Michael Loren Lisak  
David Edward Liss  
Mark Darius Robert Maneche  
John Bennett Martinie  
Catharine Elizabeth Mayor  
Adam Arshag Mazmanian  
Jason Ring McNamara  
Shoshana Miriam Miller  
Jonathan Eric Missner  
Michael William Morris, Jr.  
Noam Mordechai Menachem  
Neusner  
Julia Catherine Pelagatti  
Jennifer Rose Peverly  
Dyanna Lea Phillips  
Daniel J. Plattner

Richard Wingfield Quarles III  
Aaron David Redish  
Andrew Chamberlin Rieser  
Jonathan Abram Roberts  
Matthew Randall Rosengart  
Nancy Elizabeth Schnall  
David Andrew Schwartz  
Russell Matthew Silber  
Martin Bernard Stemmmer  
Drew Avedis Torigian  
Jennifer Ejen Tseng  
Jennifer Beth Unger  
Daniel Cavin Weaver  
Karen Ann Wendel  
Demark Lee Winget  
Albert Louis Zambone

### *Graduates from the Humanistic Studies Honors Program*

Paul Alexander Kramer  
Aravinda Pillalamari

## *Baccalaureate Candidates in the G.W.C. Whiting School of Engineering*

### *Graduating with Departmental Honors*

Garrick Ahn  
Subrat Biswal  
Robin Valerie Blasberg  
Hal Bowman  
Floyd Andrew Bullard  
Alberto Miguel Cairo  
Daniel Mark Carroll  
Dennis Hawkon Chang  
James Chang  
Daryl Ming Chen  
Stephen Chong  
David Yongsik Chung

Debra Lee Cook  
Richard Bradley Dause  
Edward Pettet Davis  
Thomas Grant Edwards  
Noah Gabriel Estrin  
Choon Kiat Goh  
David Michael Hall  
Jon Eric Hastings  
Jeffrey Alan Hertz  
Gary Evan Hsieh  
Toby Haruki Inoue

Kristie Lee Kantowski  
Peter Junghan Kim  
Sean S.H. Kim  
Anne Korin  
Kevin John Ledger, Jr.  
Jonathan Edward Lowther  
Geir Magnusson, Jr.  
Todd Anthony Mancini  
Daniele Joanne Marchione  
Bennett Scott May  
Susan Ellen Moyher

Joseph Daren Neff  
Eve Parojic  
John Cheng Kang Pui  
Cynthia Amy Quan  
Aaron David Redish  
Susan Lynn Roweton  
Glenn H. Sabin  
Monique Louise Slater  
Manish Arvind Shah  
Thomas Staubsach Sosnowski  
Melody Ann Swartz  
Marc Masayuki Takeno

## *Baccalaureate Candidates in the School of Continuing Studies*

### *Graduating with Honors*

Mark Timothy Dole  
Avi Erblich  
Phyllis B. Jensen  
Kathleen Alice Kovaly

Constance Vaughan Oliver  
Andrea Michelle Passaro  
Maria Antoinette Porretti

Kelly Lynn Raab  
Kathleen P. Reasinger  
Nancy Jane Rock

Sharon Marie Thompson  
Frances Stephanie Vitrano  
Saul J. E. Weinreb

## *Baccalaureate Candidates in the Part-Time Engineering Programs*

### *Graduating with Honors*

Elizabeth Ann Briscoe  
Richard J. Dash

William F. Gangler  
David Lee Jarvis

Daniel Cunningham Phillips III  
Robert Stephen Rider

Hugh A. Thompson  
Douglas Thomas Yoesit



# Candidates for Degrees

as of May 1, 1991

*A number of students included in the lists which follow  
completed their degree requirements earlier in the  
academic year and could not be present today  
to receive their degree in person.*

## *Bachelors of Arts in The School of Arts and Sciences*

Andrew David Abrams, of New York, N.Y.  
Max Ahn, of Gibsonia, Pa.  
Keiko Akasofu, of Fairbanks, Alaska.  
Natalie Jae Albert, of Warren, N.J.  
Russell Tod Alexander, of Tenafly, N.J.  
Kelly Jeanne Andrews, of Ambler, Pa.  
Frantz Remi Atwell, of Jamaica, N.Y.  
John Robert Austin, of Tewksbury, Mass.  
William Converse Bacon, Jr., of Granville, Mass.  
Ali Bahadori, of Margate, N.J.  
Lesley Ellen Balch, of East Northport, N.Y.  
Pamela Michelle Becker, of Latham, N.Y.  
William Michael Berger, of Aberdeen, N.J.  
Craig Jorge Bernardini, of Summit, N.J.  
Clay Elliott Beveridge, of Fairfax, Va.  
Molina Bhatnagar, of Gaithersburg, Md.  
Parakash K. Bhuyan, of Old Tappan, N.J.  
Gunther Paul Birznicks, of Bethesda, Md.  
Jennifer Anne Blank, of Broomall, Pa.  
Stephen Eliot Blank, of Rancho Santa Fe, Calif.  
Meredith Amanda Blitz, of Westbury, N.Y.  
Jonathan Andrew Blum, of Cherry Hill, N.J.  
Ciaran Robin Blumenfeld, of Metuchen, N.J.  
Glen H. Blustein, of Middleton, N.Y.  
Jeremy Morris Blynn, of North Miami, Fla.  
Wilhelm Christopher Bohn, of Oslo, Norway.  
Caroline Bonte, of New York, N.Y.  
Matthew H. Bosworth, of Stillwater, Okla.  
Lana Boter, of Forest Hills, N.Y.  
David Thomas Bowyer, of Montville, N.J.  
David Harrison Boxenbaum, of Larchmont, N.Y.  
Terri Ann Bradley, of Eldersburg, Md.  
Alisa Brandes, of Cumberland, Md.  
Stephen William Bretz, of Kettering, Ohio  
Melissa Elaine Brice, of Hartsdale, N.Y.  
Vincent Paul Briscuso, of Commack, N.Y.  
Helen Anna Broder, of Shorthills, N.J.  
Kenneth Ross Brodkowitz, of Bronx, N.Y.  
Richard John Bronshvag, of Kentfield, Calif.  
Geoffrey Fiske Brown, of Arlington, Va.  
Stephen Douglas Brown, of Rockville, Md.  
Ellen Patricia Buckley, of Sea Girt, N.J.  
Joseph Patrick Buffington, of Parkersburg, W.Va.  
Jacquelyn R. Burton, of Baltimore, Md.  
Melissa Beth Cantwell, of Riverhead, N.Y.  
Nicole Monica Carr, of Edgewood, Md.  
Rex T. Chang, of Honolulu, Hawaii.  
Elizabeth Alison Chapman, of Brookline, Mass.  
Melanie Ruth Chellman, of North Huntingdon, Pa.  
Kathryn Belle Chen, of Endicott, N.Y.

PhoChan Chen, of New City, N.Y.  
Sharon Shi-an Cheung, of Vestavia Hills, Ala.  
Abhinav Chhabra, of Alexandria, Va.  
Michael Chider, of Brunswick, Maine.  
Andy J. Chien, of Bellevue, Wash.  
Allyson Childs, of Dallas, Texas.  
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 Asma Jasmine Naeem, of Towson, Md.  
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 Matthew James O'Brien, of Lynn, Mass.  
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 David Howard Russel, of Baltimore, Md.  
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Christopher Charles Claytor, of Indianapolis, Ind. Bassoon.  
George H. Colligan IV, of Columbia, Md. Trumpet.  
Charlene Marie Critcher, of Baltimore, Md. Clarinet.  
Benita Hope Gold, of Rockville, Md. Saxophone.

Philip Rainbow Hale, of Northampton, Mass. Violin.  
Li Qing, of Beijing, Peoples Republic of China. Violin.  
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Walter Frank Bostian, of Blackburg, Va. Trombone.  
Juliette Rose Buchanan, of Dallas, Texas. Harp.  
Katherine Calvey, of Fairview Park, Ohio. Flute.  
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Seljuk Kardan, of Richmond, Va. Viola.  
Sumi Kay, of Potomac, Md. Piano.  
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Rupert Anthony Thompson, of Annapolis, Md.  
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Kent Brian Trostel, of Sun City, Ariz. Oboe.  
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Mary Michele Lewis, of Adelphi, Maryland.

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- Preston Michael Frazier, of Baltimore, Md.; B.S. Western Connecticut State College, 1982. Management.
- F. Talmage Funk, of Elkton, Md.; B.B.A. College of William and Mary, 1983. Financial Management.
- John Joseph Gaeng, of Towson, Md.; B.S. Towson State University, 1986. Management.
- Paul Dillon Gallagher, of Glendale, Calif.; A.A. Glendale College, 1985; B.S. University of Redlands, 1988. Management.
- Robert Milton Geldmacher, of Taylorsville, Md.; B.S.E.E. The Johns Hopkins University, 1975. Information Technology.
- Anita Teresa Germershausen, of Pasadena, Md.; A.A. University of Baltimore, 1982; B.S., 1984. Financial Management.
- Leslie Gadow Gettier, of Arnold, Md.; B.S. University of Maryland, 1974; M.Ed. The Johns Hopkins University, 1981. Human Resource/Behavioral Management.
- Susan Lee Giacomaglavach, of Corry, Pa.; B.S. California University of Pennsylvania, 1984. Financial Management.
- Martin Goldberg, of Baltimore, Md.; B.T.L. Ner Isreal Rabbinical College, 1988. Financial Management.
- Elizabeth Rastetter Golla, of Stewartstown, Pa.; B.S. Lewis University, 1962. Information Technology.
- Alma Noble Goodwin, of Columbia, Md.; A.A. Howard Community College, 1985; B.S. Bennett College, 1972. Information Technology.
- Booker T. Goodwin, Jr., of Asheville, N.C.; B.S. North Carolina Agricultural and Technical State University, 1970. Management.
- Shanon Lynn Graves, of Baltimore, Md.; A.A. Dundalk Community College, 1980; B.S. Towson State University, 1982. Management.
- Feresa Ann Gray, of Waldorf, Md.; A.A. Charles County Community College, 1983; B.S. University of Maryland, 1985. Financial Management.
- Michael Richard Greaney, of Silver Spring, Md.; B.A. University of Maryland, 1984. Management.
- Donna Sue Greenberg, of Owings Mills, Md.; B.S.R.N. University of Maryland, 1978. Management.
- Joel Sander Greenberg, of Baltimore, Md.; B.A. The Johns Hopkins University, 1983. Management.
- Marjorie Clarisa Greene, of Severn, Md.; B.A. Princeton University, 1988. Financial Management.
- Pamela E. Griffin, of Baltimore, Md.; B.A. University of Maryland Baltimore County, 1977. Information Technology.
- Ronna S. Grossman, of Butler, Pa.; B.S. Pennsylvania State University, 1982. Management.
- Thomas J. Guarino, of Annapolis, Md.; B.A. Long Island University C.W. Post College, 1986. Management.
- Michael I. Haas, of Silver Spring, Md.; B.S. University of Maryland, 1982. Information Technology.
- Adrienne Townes Haden, of Gaithersburg, Md.; B.A. University of Virginia, 1977. Information Technology.
- Elaine Denise Hall, of Pasadena, Md.; B.S.C.S. Towson State University, 1985. Management.
- Margaret Brill Hall, of Babylon, N.Y.; B.S.N. Catholic University of America, 1970. Management.
- Mary Elizabeth Stone Hall, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1983. Management.
- Thomas Robert Hancock, of Highland, Md. Management.
- Louise H. Hanson, of Rockville, Md.; B.A. Northern Illinois University, 1971. Information Technology.
- David Joseph Harold, of Lansdowne, Md.; A.A. Catonsville Community College, 1984; B.S. University of Maryland, Baltimore County, 1988. Information Technology.
- Shery Lester Harper, of Jessup, Md.; B.S. North Carolina Agricultural & Technical State University, 1985. Information Technology.
- Joseph H. Hartman, of Whitehall, Md. Management.
- Jeffrey Lynn Harvey, of Reisterstown, Md.; B.S. Fairmont State College, 1984. Information Technology.
- Germaine Lynn Hawkins, of Petersburg, W.Va.; B.S. West Virginia University, 1985. Management.
- Pamela Jayne Heck, of Camphill, Pa.; B.A. Gettysburg College, 1985. Management.



- Rosa Renna Heckle, of Columbia, Md.; B.S. Virginia Commonwealth University, 1986. Management.
- Christine Dianne Heinrich, of Butler, Pa.; B.S. University of Pittsburgh, 1986. Management.
- Laraine S. Henchal, of Derwood, Md.; B.S. Pennsylvania State University, 1976. Management.
- Glenda Renee Hicks, of Baltimore, Md. Management.
- Maureen Hunt Hinkle, of Sharon, Pa.; B.A. Mercyhurst College, 1974. Information Technology.
- Joanne Theresa Hiss, of Monkton, Md.; B.S. Southern Connecticut State College, 1980; M.S., 1982. Management.
- Laurie Jean Hoffman, of Baltimore, Md.; B.A. Longwood College, 1979. Management.
- Timothy Holt, Jr., of Severn, Md.; B.S. Bowie State University, 1987. Management.
- Robert Reese Hooks, of Columbia, Md.; B.S. Cornell University, 1983. Financial Management.
- Vicki Lynn Hop, of Hudsonville, Mich.; B.A. Hope College, 1987. Management.
- Thomas Michael Howser, Arbutus, Md.; B.A. Towson State University, 1976. Management.
- Ronald William Huffman, of Baltimore, Md.; B.A. University of Pittsburgh, 1982. Financial Management.
- Don R. Hullinger, Jr., of Salt Lake City, Utah; B.S. Brigham Young University, 1985. Management.
- James Andrew Hunter, of Silver Spring, Md.; B.S. College of William and Mary, 1982; M.B.A., 1986. Information Technology.
- Nachum I. Hurvitz, of Flushing, N.Y.; B.T.L. Ner Israel Rabbinical College, 1988. Information Technology.
- Jaquelyn Smith Jablonski, of Baltimore, Md.; B.S. Towson State University, 1985. Management.
- Joseph B. Jennings, of Severn, Md.; B.A. University of Maryland, 1983. Information Technology.
- Ingrid Jensen, of Columbia, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Management.
- Madelyn Frieda Johannesen, of Baltimore, Md.; A.A. Dundalk Community College, 1979; B.A. Loyola College, 1983. Management.
- Barbara Susan Johnson, of Westminster, Md.; B.A. University of Maryland, Baltimore County, 1980. Management.
- Brenda Jordan Jones, of West Point, Va.; A.A. Prince George's Community College, 1977; B.S. University of Maryland, 1979. Financial Management.
- Elizabeth Snyder Jones, of Baltimore, Md.; B.A. Western Kentucky University, 1981; M.A., 1983. Information Technology.
- Terry Lee Jones, of Baltimore, Md.; B.S.E.E. University of Maryland, 1987. Financial Management.
- Joan Bonnie Joy, of Timonium, Md.; B.A. Goucher College, 1983. Human Resource/Behavioral Management.
- David Allen Kacynski, of Peoria, Ill.; B.S. Bradley University, 1979. Management.
- Ellen Joyce Kaplan, of Waltham, Mass.; B.S. Boston University, 1982. Management.
- Christopher Sayre Karis, of Germantown, Md.; A.A. Oakloosa Walton Junior College, 1983; B.S. University of West Florida, 1986. Financial Management.
- Ronald Barry Karpel, of Baltimore, Md.; B.A. University of Maryland, 1973. Management.
- Michael L. Karpouzie, of Baltimore, Md.; B.S. Towson State University, 1985. Financial Management.
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- Andrea Nikie Katz, of York, Pa.; B.S. Pennsylvania State College, 1985. Management.
- Cathy C. Keagle, of Ellicott City, Md.; B.S.E.E. University of Delaware, 1982. Management.
- Jillian Heayn Kelly, of Baltimore, Md.; B.A. University of Baltimore, 1973. Information Technology.
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- Helen Linda Kolesar, of Sewickley, Pa.; B.S.N. Duquesne University, 1984. Management.
- Stacy Leigh Korbela, of Ellicott City, Md.; B.A. University of Michigan, 1987. Management.
- Valerie Anne Krauss, of Baltimore, Md.; B.S. The Johns Hopkins University, 1987. Management.

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- Mary Beth Leatherbarrow, of Glen Burnie, Md.; B.S. State University of New York at Buffalo, 1965. Information Technology.
- John Francis Lennon, of Baltimore, Md.; A.A. Essex Community College, 1983; B.M.E. The Johns Hopkins University, 1986. Management.
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- Timothy Ian Miller, of Baltimore, Md.; B.A. Lycoming College, 1983. Management.
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- Tracy Anne Newman, of Baltimore, Md.; B.A. University of Delaware, 1982. Management.
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- Risa Leigh Nuetzel, of Fallston, Md.; B.S. Towson State University, 1985. Management.
- Sharon Swann O'Brien, of Crofton, Md.; B.A.S.W. Salisbury State University, 1979. Information Technology.
- Karen Gail Oldham, of Towson, Md.; B.S. Tufts University, 1966. Management.
- Linda K. Olson, of Eldersburg, Md.; B.A. Southern Illinois University, 1964. Management.
- Rusalinda Gail Orgill, of Oceana, W.Va.; B.A. Fairmont State College, 1985. Human Resource/Behavioral Management.
- Linda Lou Ormsby, of Glen Arm, Md.; B.A. College of Notre Dame of Maryland, 1986. Financial Management.
- Sandra J. Parker, of Denver, Colo.; B.S. Colorado State University, 1979; M.S., 1982. Information Technology.
- Jason Edward Parrott, of Allentown, Pa.; B.S. North Carolina State University, 1986. Management.
- Amy June Parsons, of Laurel, Md.; B.S. University of Maryland, 1988. Management.
- Amit Chandubhai Patel, of Baltimore, Md.; B.S. University of Bombay, India, 1985; B.S. University of Maryland, 1987. Management.
- Susann Lunsford Patton, of Eugene, Ore.; B.S. Oregon State University, 1981. Management.
- James Anthony Pavik, of Dove Canyon, Calif.; B.S. Old Dominion University, 1979. Management.
- Sharon Cowan Pearson, of Abingdon, Md.; B.S. State University of New York at Buffalo, 1973. Information Technology.
- Gary David Pensinger, of Glen Burnie, Md.; B.S. University of Maryland, 1985. Management.
- Michelle Malley Pienta, of Southfield, Mich.; B.S.N. Oakland University, 1981. Management.
- Shalom Judah Polen, of Boston, Mass.; B.T.L. Ner Israel Rabbinical College, 1980; M.T.L., 1984. Management.
- Keith Thomas Porter, of Abingdon, Md.; A.A.S. University of Toledo, 1984; B.E.T., 1986. Information Technology.
- Mark Anthony Prego, of Auburn, N.Y.; B.S. York College of Pennsylvania, 1983. Management.
- Mary Catherine Prisbe, of Baltimore, Md.; B.A. Towson State University, 1983. Management.
- Sharon Hasena Pugh, of Silver Spring, Md.; B.S.I.E. Purdue University, 1977. Financial Management.
- Kimberley Ann Pyles, of Sykesville, Md.; B.S. Lebanon Valley College, 1979. Information Technology.
- Yvonne Cecelia Queen, of Baltimore, Md.; B.S. Morgan State University, 1982. Management.
- Tate Oliver Redding, of Redding, Pa.; B.A. Dakota Wesleyan University, 1978. Information Technology.
- Raymond Joseph Reed, Jr., of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Management.
- Michael William Reed, of Kokomo, Ind.; B.S.E.E.T. Ohio Institute of Technology, 1982. Financial Management.
- Katherine Almeda Rehmann, of Baltimore, Md.; B.S.N. Towson State University, 1981. Management.
- Charlotte Dawn Reppy, of Rockville, Md.; B.A. West Virginia University, 1972. Information Technology.
- John William Rich, of Arlington, Va.; B.A. St. Bonaventure University, 1975; M.L.S. Georgetown University, 1982. Financial Management.
- Anita Fay Richardson, of Baltimore, Md.; B.S. Indiana University of Pennsylvania, 1982. Management.



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- Norbert Edwin Rieg, of Ellicott City, Md.; B.A. University of Maryland, 1975. Information Technology.
- Kimberly Barbara Ripley, of Baltimore, Md.; B.S. Towson State University, 1983. Management.
- Miguel A. Rivera, of San Juan, Puerto Rico; B.S. Purdue University, 1985. Management.
- Mary Alice Robinson, of Silver Spring, Md.; A.A. Montgomery Community College, 1980; B.A. University of Maryland, 1983; Information Technology.
- Ruth Ann Fedorchuk Robust, of Perry Hall, Md.; B.A. Goucher College, 1982. Financial Management.
- John Michael Roche, of Pompano Beach, Florida; B.B.A. St. Bonaventure University, 1981. Information Technology.
- Marguerite Bernel Rodden, of Silver Spring, Md.; B.A. Catholic University of America, 1982. Financial Management.
- Belinda Roebuck, of New York, N.Y.; A.A.S. Harriman College, 1981; B.S. Fordham University, 1989. Management.
- Christopher Watson Rogers, of Winnetka, Ill.; B.A. Southern Methodist University, 1985. Management.
- Julie Ann Roling, of Laurel, Md. Management.
- Stephen Goerge Romey, of Pasadena, Md.; B.A. Duke University, 1980. Information Technology.
- Laurence Rosenberg, of Baltimore, Md.; B.S.E.E. University of Maryland, 1987. Management.
- Michael Allan Rovinsky, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1986; M.T.L., 1989. Management.
- Patricia M. Rowan, of Lutherville, Md.; B.S. Towson State University, 1978. Management.
- Linda Kay Roydhouse, of Baltimore, Md.; B.S.N. University of Maryland, 1985. Management.
- Timothy Peter Rubalcaba, of Butler, Ind.; B.A. Purdue University, 1985. Management.
- Carol Ann Rubino, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Management.
- Patricia Ann Rubino, of Towson, Md.; B.S. Towson State University, 1984. Management.
- Martha Jane Rudzki, of Pittsburgh, Pa.; B.A. Hood College, 1986. Management.
- William David Samuels, of Sparks, Md.; B.A. St. Lawrence University, 1976. Financial Management.
- Nora B. Sarkahian, of Catonsville, Md.; B.S.E.E. Drexel University, 1987. Management.
- Robert Michael Sarnecki, of Baltimore, Md.; B.S. Mount Saint Mary's College, 1984. Information Technology.
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- Carol Lee Schulte, of Baltimore, Md.; B.S. University of Maryland, 1973. Management.
- Ruth Meisenhelder Seaby, of Baltimore, Md.; B.S. Towson State University, 1976. Management.
- Nancy Patricia Seifert, of Baltimore, Md.; A.A. Essex Community College, 1979; B.S.N. University of Maryland, 1986. Management.
- Madeleine Ann Shea, of Baltimore, Md.; B.A. Trinity College, 1982. Management.
- Herbert Louis Shemer, of Owings Mills, Md.; B.A. Western Maryland College, 1985; M.P.A. University of Baltimore, 1987. Information Technology.
- Caroline Teubert Shepherd, of Parkville, Md.; B.S. West Virginia University, 1977. Management.
- Kathleen Tewey Sheridan, of Ellicott City, Md.; B.S. St. Mary's College of Maryland, 1982. Management.
- Juliana Marie Shiminski, of Mayaguez, Puerto Rico; B.S. University of Puerto Rico, 1987. Management.
- Cynthia Regina Shipley, of Washington, D.C.; B.S. Tuskegee University, 1977. Management.
- Glennor Loy Shirley, of Columbia, Md. Human Resource/Behavioral Management.
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- Robert Lee Sinclair, of Baltimore, Md. Information Technology.
- Arthur J. Slusark, of Fallston, Md.; B.A. Duquesne University, 1978. Management.
- Barbara Stauch Slusher, of Baltimore, Md.; B.S. Dickinson College, 1986. Management.
- Charles Samuel Smith, of Columbia, Md. Information Technology.
- Dorothy McGee Smith, of Columbia, Md.; B.A. University of Maryland, 1973. Management.

- Robert Louis Smith, Jr., of Randallstown, Md. Public Administration.
- Sandra Lee Smith, of Baltimore, Md.; B.A. Western Maryland College, 1987. Information Technology.
- Sharon Lene Smith-Bell, of Randallstown, Md. Management.
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- Michele Marie Spaulding, of Catonsville, Md.; B.S. Rhode Island College, 1983. Information Technology.
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- Tressa Bailey Springmann, of Columbia, Md.; B.A. St. Mary's College of Maryland, 1985. Information Technology.
- Vimal K. Srivastava, of Germantown, Md.; M.S. St. Johns University, 1986. Management.
- Tracey Anne Steinberg, of Edgewater, Md.; B.S. Virginia Technical Institute and State University, 1988. Financial Management.
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- Joseph Edward Stevenson, of Silver Spring, Md.; B.S. Westminster College, 1986. Management.
- Joanne Marie Stine, of Columbia, Md.; B.S. University of Maryland, 1987. Management.
- Kathleen Scott Stover, of Falls Church, Va.; B.A. College of William and Mary, 1976. Management.
- David Gerard Strappelli, of Baltimore, Md.; B.S. Towson State University, 1987. Management.
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- Debra Stevens Strucko, of Sparks, Md.; B.S. University of Maryland, 1970. Management.
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- Deborah Ann Szrom, of Baltimore, Md.; B.S. Towson State University, 1979. Management.
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- Laura Marie Tillman, of Pasadena, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1984. Management.
- Colleen Patricia Tressler, of Baltimore, Md.; B.S. University of Maryland, 1983. Management.
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- David Ralph Urech, of Ellicott City, Md.; B.S. University of Maryland, 1985. Management.
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Jay Timothy Wissmann, of Baltimore, Md.; B.A. Towson State University, 1983. Information Technology.

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William Barry Wood, Jr., of Middletown, Md.; A.A. Hagerstown Junior College, 1984; B.S. Towson State University, 1987. Management.

Beth A. Woodring, of Lattimer, Pa.; B.A. Bucknell University, 1983. Information Technology.

Michelle Judith Wright, of Baltimore, Md.; B.A. University of Maryland, 1986. Financial Management.

Susan Klein Wright, of Annapolis, Md.; B.S. The Johns Hopkins University, 1988. Management.

Christine Louise Wruck, of Columbia, Md.; B.A. College of William and Mary, 1984. Human Resource/Behavioral Management.

Donald M. Wynne, of Lyndhurst, N.J.; B.A. Rutgers University, 1986. Human Resource/Behavioral Management.

Sherry Lynn Young, of Columbia, Md.; B.S.Ed. South West Missouri State College, 1980. Management.

David A. Zajac, of Lititz, Pa.; B.A. St. Charles Seminary College, 1985. Financial Management.

Frank John Zariemba, Jr., of Abingdon, Md.; B.S.C.E. University of Delaware, 1986. Management.

Da-Ning Zhang, of Germantown, Md.; B.S. Beijing Normal University, 1981; M.S. University of Maryland, 1984. Financial Management.

William Joseph Ziegler, Jr., of Columbia, Md.; B.A. St. Mary's College of Maryland, 1985. Management.

Robert Jay Zoerman, Jr., of Grand Rapids, Mich.; B.S. The Johns Hopkins University. Management.

### *Certificates of Advanced Study in The School of Continuing Studies*

Thelma Lee Carter, of Baltimore, Md.; M.S. The Johns Hopkins University, 1981.

Robert G. Eliason, of Chestertown, Md.; B.A. High Point College, 1980; M.S. Wilmington College, 1987.

Thomas Mark Fredricksen, of Mt. Holly Springs, Pa.; M.S. Shippensburg University, 1988.

Marlene Porter-Blair, of Columbia, Md.; B.S. University of Maryland, Baltimore County, 1977; M.S. The Johns Hopkins University, 1983.

## *Masters of Science in The School of Nursing*

Stella Aguinaga, of Rio De Janeiro, Brazil; B.S.N., Federal University of Rio De Janeiro, 1986. *Knowledge of and Attitudes Toward Smoking Cessation Among Urban African Americans*

Martha Sandra Alvaran, of Ellicott City, Maryland; B.S.N., University of Maryland at Baltimore, 1988. *Infection Control in Longterm Care Facilities*

Alice M. Dunphy, of Lutherville, Maryland; B.S.N., University of Delaware, 1986. *Differences in Nursing Care Needs Between HIV+ Homosexuals-Bisexuals and HIV+ Drug Users in the Inpatient Setting*

Sandra Armella Pezzoli, of Ellicott City, Maryland; B.S.N., Indiana University, 1985. *Congruence Between Self-Rated Health and Objective Health Measures in HIV+ Patients*

Lisa Carroll Radebaugh, of Towson, Maryland; B.S.N., University of Maryland at Baltimore, 1983. *Psychosocial Aspects of Practicing Clean Intermittent Self-Catheterization*

Laura Sheely, of Glen Burnie, Maryland; B.S.N., Georgetown University, 1984. *Factors Affecting Sleep in Hospitalized Oncology Patients*

Mary Ann White, of Raleigh, North Carolina; B.S.N., University of North Carolina, 1984. *Breast Selfexamination in Elderly Women: Attitudes, Knowledge and Barriers*

## *Graduate Performance Diplomas in The Peabody Conservatory of Music*

Cheryl Lynn Johnson, of Crystal Lake, Ill.; B.M. University of Illinois, 1986; M.M. University of Illinois, 1987. Voice.

Frent Xavier Johnson, of Clinton, Md.; B.M. The Johns Hopkins University, 1989. Organ.

Sandra Murray, of Chicoutimi, Quebec, Canada; Dipl. Conservatoire de Musique du Quebec, 1987. Piano.

Bryan Russell Verhoye, of San Diego, Calif.; B.M. University of Southern California, 1983. Piano.

## *Masters of Music in The Peabody Conservatory of Music*

Xak Bjerken, of Eugene, Ore.; B.A. University of California at Los Angeles, 1989. Piano.

Robin Renee Bourguignon, of New Gretna, N.J.; B.M. Westminster Choir College, 1986. Voice.

Catherine Edmonds Bradford, of Ellicott City, Md.; B.A. Mary Washington College, 1986. Music Education.

Rebecca Jane Broberg, of Swarthmore, Pa.; B.A. University of Pennsylvania, 1988. Voice.

Brigitte Capdeville, of Los Angeles, Calif.; B.M. University of Michigan, 1989. Piano.

Lisa Maria Cella, of Holliston, Mass.; B.A. Syracuse University, 1988. Flute.

Michael Joseph Center, of Seattle, Wash.; B.M. New England Conservatory, 1989. Violoncello.

Allison Beth Charney, of Los Angeles, Calif.; B.A. Harvard University, 1989. Voice.

YunSoo Cho, of Seoul, Korea; B.M. Seoul National University, 1989. Piano.

Hea-Soon Chung, of Seoul, Korea; B.M. Ewha Womans University, 1983. Harp.

Christian Colberg Becerra, of San Juan, Puerto Rico; B.M. The Johns Hopkins University, 1989. Violin.

Charles Michael Jay Demuynck, of Dawson Creek, British Columbia, Canada; B.M. University of Toronto, 1989. Conducting.

Genevieve Marie Eichman, of Trempealeau, Wis.; B.M. Trinity University at San Antonio, 1989. Flute.

Xiao-Xing Geng, of Shanghai, Peoples Republic of China; B.M. University of Texas at Austin, 1989. Piano.

Jennifer Leigh Hervey, of Gresham, Ore.; B.M. University of Oregon, 1989. Percussion.

Steven Campbell Hilmy, of Aberdeen, Scotland; B.A. George Washington University, 1984. Composition and Electronic and Computer Music.

- Kerri Lyn Hyatt, of Grantsburg, Wis.; B.M. Oberlin Conservatory, 1988; M.M. The Johns Hopkins University, 1990. Ensemble Arts.
- Elizabeth Hart IrvinKolker, of Baltimore, Md.; B.M. Eastman School of Music, 1968. Voice.
- Patricia Anne Johnson, of Richland Center, Wis.; B.M. Lawrence University, 1986. Percussion.
- Lori Anne Kaufman, of Franklin, Mich.; B.M. University of Southern California, 1989. Piano.
- Amy Frances Klosterman, of Fargo, N.D.; B.M. Michigan State, 1988. Piano.
- Lynn F. Kowal, of Baltimore, Md.; B.M. Virginia Commonwealth University School of the Arts, 1989. Electronic and Computer Music.
- Mary Elizabeth Kraatz, of St. Catherine, Ontario, Canada; B.M. The Johns Hopkins University, 1989. Flute.
- Peter Michael Krask, of Frederick, Md.; B.A. University of Maryland, 1988. Music Criticism.
- Hea Kyung Lee, of Seoul, Korea; B.F.A. United States International University, 1983. Voice.
- Jennifer Leshnower, of Odessa, Texas; B.M. Rice University, 1989. Violin.
- Colleen Marie MacDonald, of Cincinnati, Ohio; B.M. Cincinnati Conservatory of Music, 1988. Trombone.
- Mark Mandarano, of New Rochelle, N.Y.; B.A. Cornell University, 1987. Conducting.
- Steven L. Marking, of La Crosse, Wis.; B.M. Viterbo College, 1986. Voice.
- Rachel Matthews, of WinstonSalem, N.C.; B.M. Oberlin Conservatory, 1989. Piano.
- Mark Mazullo, of Doylestown, Pa.; B.M. Catholic University of America, 1989. Music History.
- Barbara Ann Mountain, of Rockville, Md.; B.A. Case Western Reserve University, 1986. Voice.
- Nam Yeung, of Tsuen Wan, Hong Kong; Dipl. Hong Kong Academy for Performing Arts, 1988. Piano.
- Louis Heinz Nemec, of Miami, Fla.; B.S. Geneva College, 1988; B.A. Geneva College, 1988. Music Education.
- Juha Matti Ojala, of Oulu, Finland; Dipl. Municipal Conservatory in Oulu, 1985; M.M. Sibelius Academy, 1988. Piano.
- Andrew Edward Palmer, of Annandale, Va.; B.M. James Madison University, 1989. Double Bass.
- Clara Jooyoung Park, of Athens, Ga.; B.M. The Johns Hopkins University, 1989. Piano.
- Sukhan Poon, of Tai Wai Shatin, Hong Kong; B.M. University of Portland, 1989. Music Education.
- Junghye Ra, of Seoul, Korea; B.M. The Johns Hopkins University, 1988. Piano.
- Angela Lee Raspa, of Lexington Park, Md.; A.B. Goucher College, 1986. Electronic and Computer Music.
- Lisa L. Rehwoldt, of Santa Barbara, Calif.; B.M. Oberlin College, 1987. Piano.
- Shari Allison Rosen, of Old Bethpage, N.Y.; B.M. The Johns Hopkins University, 1988. Voice.
- Richard Steven Roth, of Phoenix, Ariz.; B.M. Arizona State, 1984; M.M. The Johns Hopkins University, 1990. Electronic and Computer Music.
- Keh-Shu Shen, of Taipei, Taiwan, Republic of China; B.A. National Taiwan University, 1988. Violin.
- William J. Simms, of Bethesda, Md.; B.M. College of Wooster, 1988. Guitar.
- Jen-Hsiu Su, of Taipei, Taiwan, Republic of China; B.A. Chinese Culture University, 1987. Piano.
- Laura Ellen Teeple, of Niles, Mich.; B.S. Western Michigan University, 1988. Voice.
- Bonnie Louise Viens, of Stafford Springs, Conn.; B.A. University of Notre Dame, 1988; M.M. The Johns Hopkins University, 1990. Music History.
- Helen Rachel Weems, of Newtonia, Mo.; B.A. School of the Ozarks, 1986. Music History.
- Stephen Kent Wilber, of Salisbury Center, N.Y.; B.M. Oberlin Conservatory, 1989. Piano.
- Meejung Yoo, of Richmond, Va.; B.M. The Johns Hopkins University, 1989. Piano.



## *Artist Diplomas in The Peabody Conservatory of Music*

Barteld Douwe Bosma, of Utrecht, The Netherlands; akte B. Arnhem Conservatory of Music, 1984; M.M. The Johns Hopkins University, 1987. Guitar.

Jeffrey Lynn Fahnestock, of Mt. Holly Springs, Pa.; B.M. Eastman School of Music, 1983; M.M. Eastman School of Music, 1987. Voice.

Deborah Anne Fleisher, of New York, N.Y.; Dipl. Curtis Institute of Music, 1976. Harp.

Choong Mo Kang, of ChunAn City, Korea; B.A., Seoul National University, 1983; M.M., San Francisco Conservatory of Music, 1986. Piano.

Kihoon Sung, of Daegu, Korea; B.M. Seoul National University, 1983; M.M. Seoul National University, 1985. Voice.

Pin Fei Tang, of Tianjin, Peoples Republic of China; B.M. Fine Arts College of Peking, 1985; M.M. University of Illinois at UrbanaChampaign, 1988. Violoncello.

## *Masters of Science in The School of Hygiene and Public Health*

Abbas Mohammed Hawwari, of Sabastia-Nablus, Jordan; B.S. University of Arizona, 1985. Immunology and Infectious Diseases. *Human Papiollomavirus Infections in a Sexually Transmitted Disease Clinic Population in Baltimore.*

Jennifer Jinot, of Sudbury, Canada; B.A. University of Waterloo, 1985. Environmental Health Sciences. *An Investigation of the Potential Involvement of Interleukin-1 in Ozone-Induced Airway Hyperresponsiveness and Inflammation.*

Proscovia Lubega, of Tanzania, East Africa; M.B.Ch.B. Makerere University, 1984. *Immunology and Infectious Diseases. Cloning a Plasmodium berghei Gene Encoding a Heat-Shock Related Stress Protein.*

Doreen Doi Ling Tam, of Hacienda Heights, Calif.; B.S. University of California at Irvine, 1987. Biostatistics. *Identifying Subtypes of Schizophrenia by Assessing the Risk for Psychopathology in the Relatives: An Application of the Cox Regression Model on Dependent Data.*

Zhen Nora Tu, of Davis, Calif.; B.S. University of California at Davis, 1988. Biostatistics. *Logistic Discriminant Test as Applied to Censored Data.*

Joan L. Valentine, of Baltimore, Md.; B.S. Pennsylvania State University, 1979. *Immunology and Infectious Diseases. Detection of Helicobacter pylori Using DNA Hybridization Techniques.*

Mingwei Xu, of Shanghai, People's Republic of China; B.S. East China Normal University, 1987. Population Dynamics. *Kinship Dynamics in Nonstable Population Models.*

## *Masters of Health Science in the School of Hygiene and Public Health*

Laura Bani Cesano, of Buenos Aires, Argentina; B.S. Westmont College, 1988. International Health.

Katherine Miller Bass, of Baltimore, Md.; B.A. Duke University, 1979; M.D., 1983. Epidemiology. Chronic Disease Epidemiology.

Nancy Montgomery Baum, of Alexandria, Va.; B.S.N. The University of Michigan, 1987. Health Policy and Management. Health Finance and Management.

Steven Eugene Benner, of Baltimore, Md.; B.A. The University of Chicago, 1981; M.D. The University of Missouri, 1985. Epidemiology. Clinical Epidemiology.

Debra Susan Bernstein, of Hatboro, Pa.; B.S. The George Washington University, 1986. Health Policy and Management. Health Finance and Management.

Catherine Elizabeth Cartwright, of Glen Ellyn, Ill.; B.A. Central University of Iowa, 1986. Environmental Health Sciences.

- Marion Ceraso, of Baltimore, Md.; B.A. Rutgers University, 1984. Health Policy and Management. Behavioral Sciences and Health Education.
- Cheré Monique Chase, of Glen Ridge, N.J.; B.A. Brown University, 1988. Health Policy and Management. Health Finance and Management.
- Wen-Nuan Cheng, of Taipei, Republic of China; B.S. National Taiwan University, 1987. Mental Hygiene.
- Howard Douglas Chilcoat, of Bel Air, Md.; B.A. Harverford College, 1980; M.S. The Johns Hopkins University, 1986. Biostatistics.
- Demetra Vasilios Collia, of Bowie, Md.; B.A. Hope College, 1978; M.S. Western Michigan University, 1983. Biostatistics.
- Mauricio Concha, of Medellin, Colombia; M.D. Institute of Health Sciences, 1986. Epidemiology. Infectious Disease Epidemiology.
- Deanna Mae Crouse, of Silver Spring, Md.; A.S. Graham College, 1974; B.A. University of Maryland, 1985. International Health.
- Rosa María Crum, of Baltimore, Md.; B.A. Barnard College, 1979; M.D. Harvard University, 1985. Epidemiology. Clinical Epidemiology.
- Jane Harriet Forman, of Cambridge, Mass.; B.A. Harvard University, 1985. Health Policy and Management. Health Finance and Management.
- Francisco Franco-Marina, of Tuxtla, Mexico; M.D. National Autonomous University of Mexico, 1984; M.P.H. School of Public Health of Mexico, 1985; M.Sc., 1988. Epidemiology. Clinical Epidemiology.
- Deborah Anne Galaska, of Prattville, Ala.; B.S.C.E. Massachusetts Institute of Technology, 1981; M.P.A. University of Oklahoma, 1984. Environmental Health Sciences.
- Shannon Marie Gallivan, of Bergen, N.Y.; B.S. Cornell University, 1989. Health Policy and Management. Health Finance and Management.
- Kathleen Ann Graham, of Baltimore, Md.; B.A. University of Pittsburgh, 1980; M.S.W. The University of Michigan, 1988. Maternal and Child Health.
- Kate Hanley, of Providence, R.I.; B.A. Brown University, 1987. Environmental Health Sciences.
- Teti Herawati, of Jakarta, Indonesia; Sarjana, Bogor Agricultural University, 1983. Population Dynamics.
- Dana Michelle Hotra, of Downey, Calif.; B.A. University of California at Santa Barbara, 1986. Maternal and Child Health.
- John David Hundt, of Lindsay, Texas; B.B.A. Texas A&M University, 1985. Health Policy and Management. Health Finance and Management.
- Lenna Babigian Janick, of Columbia, Md.; B.A. University of Rochester, 1987. Mental Hygiene.
- Amy Martha Krackowsky, of New Britain, Conn.; B.A. Skidmore College, 1989. Health Policy and Management. Health Finance and Management.
- Joshua Norman Liberman, of Baltimore, Md.; B.A. The Johns Hopkins University, 1989. Epidemiology. Occupational and Environmental Epidemiology.
- Marialena Luperini, of Towson, Md.; B.S. University of Delaware, 1987. Health Policy and Management. Health Finance and Management.
- Ninan Ajoy Mathew, of Cincinnati, Ohio; B.A. Carleton College, 1988. International Health.
- Elizabeth Alice Matthews, of Newton Center, Mass.; B.S. Boston College, 1982. International Health.
- Mark Allen Melanson, of Joppa, Md.; B.S. Dickinson College, 1983. Environmental Health Sciences.
- Sandra Miscovich, of San Diego, Calif.; B.A. University of California at San Diego, 1988. International Health.
- Mira Mitra, of Mirpur, Bangladesh; B.A. Dhaka University, 1975; M.A., 1977. Population Dynamics.
- Alfredo Morabia, of Geneva, Switzerland; M.D. Geneva University, 1978; M.P.H. The Johns Hopkins University, 1987; Ph.D., 1989. Biostatistics.
- Carles Muntaner, of Barcelona, Catalonia, Spain; M.D. University of Barcelona, 1981; Ph.D. Autonomous University of Barcelona, 1985. Mental Hygiene.
- Margaret Jessemin Nagel, of Baltimore, Md.; B.S. Cornell University, 1985. Health Policy and Management. Health Finance and Management.
- Emily Shapiro Navetta, of Columbia, Md.; B.A. Brandeis University, 1989. Health Policy and Management. Health Finance and Management.
- Robert Edward Patterson, III, of Baltimore, Md.; B.A. Dartmouth College, 1985. M.A. The Johns Hopkins University, 1990. International Health.
- Thomas V. Perneger, of Geneva, Switzerland; M.D. University of Geneva, 1983. Biostatistics.
- Charles Brace Reuland, of Cincinnati, Ohio; B.A. The University of Michigan, 1988. Health Policy and Management. Health Finance and Management.
- John Ruthinoski, of Aquebogue, N.Y.; B.S. Cornell University, 1989. Health Policy and Management. Behavioral Sciences and Health Education.



Ann Rainey Sherpick, of Farmington, Conn.; B.A. Tufts University, 1986. Population Dynamics.

Nicole Sharon Simmons, of Chevy Chase, Md.; B.A. Harvard University, 1983. Health Policy and Management. Health Policy.

Ilene Sharon Speizer, of Cambridge, Mass.; B.A. Washington University, 1987. Population Dynamics.

Sheryl A. Starnes, of Denver, N.C.; B.A. University of North Carolina, 1988. International Health.

Noriko Takahashi, of Yokohama, Japan; M.A. Tsuda College, 1989. Population Dynamics.

Jingyan Yang, of Chengdu, People's Republic of China; B.A. Sichuan Institute of Foreign Languages, 1984. Population Dynamics.

### *Masters of Public Health in The School of Hygiene and Public Health*

Neil Meier Abel, of Rockville, Md.; B.S.P. Kansas University, 1973; M.B.A. St. John's University, 1981; M.S. The George Washington University, 1985.

Damiano Dante Cesare Abeni, of Rome, Italy; M.D. University of Milan, 1987.

Sandro Accorsi, of Bologna, Italy; M.D. University of Bologna, 1981.

Ingrid Aija Adamsons, of New York, N.Y.; B.A., Brown University, 1981; M.D., 1984.

Faruque Ahmed, of Dhaka, Bangladesh; M.B.B.S., Dhaka Medical College, 1982.

Douglas Ray Akin, of Pueblo, Colo.; B.S. Southern Colorado State College, 1968.

Barbara Elyn Aliza, of Chevy Chase, Md.; B.A. University of California at Los Angeles, 1967; M.A. The Catholic University of America, 1975.

Lucia Alonso, of Madrid, Spain; M.D. University Complutense at Madrid, 1986.

Tatsuya Aoki, of Masuda, Japan; M.D. Yamaguchi University, 1984.

Shams El Arifeen, of Dhaka, Bangladesh; M.B.B.S. Dhaka University, 1983.

Dorte Arnbjerg, of Aarhus, Denmark; D.D.S. Royal Dental College at Aarhus, 1985; Ph.D., 1990.

Enias Baganizi, of Kibuye, Rwanda; B.A. National University of Rwanda, 1985; M.D., 1988.

Byron Paul Bailey, of Sacramento, Calif.; B.S. Wright State University, 1982.

Cynthia Marlo Baird, of Moorestown, N.J.; B.A. Mid America Nazarene College, 1981; M.D. Texas A&M University, 1988.

Lewellys Franklin Barker, of Chevy Chase, Md.; B.A. Princeton University, 1955; M.D. The Johns Hopkins University, 1959.

Peggy Ripley Barker, of Rockville, Md.; B.A. Berea College, 1969.

Robert William Beardall, of Alexandria, Va.; B.S. College of Charleston, 1979; M.D. Medical University of South Carolina, 1983.

Susan Ellen Beekmann, of Baltimore, Md.; B.S. Albright College, 1986.

Christopher Charles Beyrer, of East Islip, N.Y.; B.A. Hobart College, 1981; M.D. State University of New York at Brooklyn, 1988.

Penny Ellen Borenstein, of North Bellmore, N.Y.; B.S. Cornell University, 1982; M.D. State University of New York Health Science Center, 1988.

Manon Antoinette Boudreault, of Baltimore, Md.; B.S. Central Michigan University, 1983.

Ronald Justin Bowerman, of Alameda, Calif.; B.S. University of California at Davis, 1973; M.D. Oral Roberts University, 1987.

Ross Joseph Brechner, of Evergreen, Colo.; B.A. Princeton University, 1962; M.S. Tulane University, 1967; M.D., 1969.

Aumthorpun Buavirat, of Bangkok, Thailand; B.Ed. Sri Nakharinwiraot University, 1977; M.Ed. Chulalongkorn University, 1979.

Patricia Owen Buehler, of Park Forest, Ill.; B.A. The University of Chicago, 1986; M.D. The Johns Hopkins University, 1990.

Earl James Campazzi, of Water Mill, N.Y.; B.A. The Johns Hopkins University, 1984; M.H.S., 1986; M.D. University of Pittsburgh, 1989.

Luis Hernan Caris, of Santiago, Chile; M.D. University of Chile, 1979.

Richard Myron Carter, of Phoenix, Ariz.; B.S. Arizona State University, 1975; D.O. North Texas State University, 1981.

- Susan Ann Carter, of Margate, Fla.; B.S.N. Olivet Nazarene University, 1977.
- Frank Edward Cefali, of Washington, D.C.; B.S.N. Gwynedd Mercy College, 1985.
- Karen Rossi Charron, of Bel Air, Md.; B.S.N. Towson State University, 1985.
- Carol Cistola, of Juneau, Alaska; B.S. Pennsylvania State University, 1969; M.D. Medical College of Pennsylvania, 1975.
- Marianne Cloeren, of Havre de Grace, Md.; B.A. University of Pennsylvania, 1980; M.D. Temple University, 1987.
- Susan E. Coffin, of Baltimore, Md.; B.A. Williams College, 1983; M.D. University of Vermont, 1987.
- Barbara Ann Collins, of Wellington, New Zealand; B.A. University of Canterbury, 1980.
- Karen Scott Collins, of Commack, N.Y.; B.A. Harvard University, 1982; M.D. Cornell University, 1986.
- Carolyn Ann Contee-Lassiter, of Watchung, N.J.; B.A. Howard University, 1969; M.Ed., 1974; D.D.S., 1981.
- Peter Cowley, of Austin, Texas; B.A. University of Texas, 1983; M.D. Baylor College of Medicine, 1988.
- Maria Teresa Cuchi, of Zaragoza, Spain; M.D. University of Zaragoza, 1981.
- Paloma Cuchi, of Washington, D.C.; M.D. University of Zaragoza, 1986.
- Susan Dona Cummings, of Owings Mills, Md.; B.S.N. Duke University, 1981.
- Emmett Thomas Cunningham, Jr., of Philadelphia, Pa.; B.A. The Johns Hopkins University, 1983; Ph.D. University of California at San Diego, 1989; M.D. The Johns Hopkins University, 1990.
- Sally M. D'Angelo, of Denver, Colo.; B.S.N. Arizona State University, 1977; M.D. University of Colorado, 1987.
- Laura Setliff Davidson, of Marion, Va.; B.S. Virginia Commonwealth University, 1978; M.S. 1978.
- Andrea Maria Demont, of Heidelberg, Germany; M.D. University of Ulm, 1985.
- Janice Gwen Derrickson, of Towson, Md.; B.S. University of Florida, 1980; M.S. The Johns Hopkins University, 1985; Ed.D., 1989.
- Margaret Mary Diebel, of St. Paul, Minn.; B.A. Metropolitan State University, 1990.
- Ana Victoria Diez Roux, of Buenos Aires, Argentina; M.D. University of Buenos Aires, 1985.
- Michele Lynn Dreyfuss, of Washington, D.C.; B.A. Stanford University, 1987.
- Faye Drummond, of Bethesda, Md.; B.A. California State College at Los Angeles, 1969; M.A. The George Washington University, 1977.
- Cherry E. Faile, of Nalerigu, Ghana; B.S.N. Medical College of Georgia, 1978.
- John Joseph Farley, Jr., of Verona, N.J.; B.A. Drew University, 1977; M.D. The George Washington University, 1981.
- Brian Hershel Feighner, of Houston, Texas; B.A. University of Virginia, 1979; M.D. Baylor College of Medicine, 1983.
- Violet Daphne Forsythe-Duke, of Port of Spain, Trinidad; M.B.B.S. University of the West Indies, 1968.
- Ciro Franco, of Ercolano, Italy; M.D. University of Naples, 1980.
- Paula Catherine Franklin, of Washington, D.C.; M.B.B.S. The Medical College of St. Bartholomew's Hospital, 1983.
- Robert Paul Friedlaender, of Gainesville, Fla.; B.S. The University of Michigan, 1970; M.D. Wayne State University, 1973.
- Paul Alan Gaist, of North Potomac, Md.; B.A. University of California at Berkeley, 1980; B.A., 1980.
- Joseph John Gallo, of New Rochelle, N.Y.; B.S. Fordham University, 1978; M.D. Pennsylvania State University, 1982.
- Paula Gordinier Gardner, of Portland, Ore.; B.A. Lawrence University, 1975.
- Yves Mériadec Marie Geneviev, of Poitiers, France; M.D. Tours University, 1981.
- Grace Maria Gianturco, of Falls Church, Va.; B.S.N. University of Virginia, 1984.
- Stephen Charles Gieser, of East Haven, Conn.; B.S. Wheaton College, 1982; M.D. University of Illinois, 1986.
- Irene Driscoll Goepp, of Boston, Mass.; B.S. Lesley College, 1985.
- Gary Bruce Green, of New York, N.Y.; B.S. State University of New York at Stonybrook, 1983; M.D. New York University, 1987.
- Richard David Guerin, of San Antonio, Texas; B.E.S. The Johns Hopkins University, 1970; D.D.S. University of Maryland, 1976; M.S. The George Washington University, 1982.
- David Kevin Gustavison, of Alma, Mich.; B.S. Ferris State College, 1981; D.O. Michigan State University, 1986.
- Marlene Elizabeth Haffner, of Rockville, Md.; M.D. The George Washington University, 1965.
- Sherry C. Hammond, of Baltimore, Md.; B.S.N. College of Notre Dame, 1982.
- Jeanne Marie Hand, of Portsmouth, R.I.; B.S. Northeastern University, 1986.
- Susan Marie Harrington, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1984.

- Sarah Claudette Hayward, of Exmouth, England; B.S.N. Queen's University, 1984.
- Peter Herzig, of Krefeld, West Germany; M.D. University of Duesseldorf, 1973.
- Judith Derkash Hollander, of Portland, Ore.; B.S. Mary Baldwin College, 1970; B.S.N. Vancouver City College, 1976.
- Chaur-Dong Hsu, of Taipei, Republic of China; M.D. Kaohsiung Medical College, 1982.
- Ching Chaw C. Huang, of Bethesda, Md.; B.S.N. National Taiwan University, 1966; M.A. New York University, 1976.
- Peter Sheng-Hsiong Huang, of Wilmington, Del.; M.D. Taipei Medical College, 1967.
- Ellen M. Hutchins, of Gaithersburg, Md.; B.A. Framingham State College, 1975; M.S.W. University of Connecticut, 1978.
- Kenneth Craig Hyams, of Rockville, Md.; B.A. University of Texas, 1972; M.D., 1978.
- Carolus Bernardus Ijsselmuiden, of Johannesburg, South Africa; M.D. Erasmus University of Rotterdam, 1980.
- Michael Pullar Johnson, of New York, N.Y.; B.A. Clark University, 1979; M.D. Tufts University, 1983.
- Walter Leonard Jones, Jr., of Baltimore, Md.; B.S.N. Andrews University, 1983.
- Malcolm Nathaniel Joseph, III, of New York, N.Y.; B.A. Holy Cross College, 1971; M.D. Boston University, 1976.
- Lavanya Devesh Kanjarpane, of Silver Spring, Md.; M.B.B.S. Kasturba Medical College, 1985.
- Cynthia Joyce Kapphahn, of Birmingham, Mich.; B.A. Oberlin College, 1981; M.D. Yale University, 1987.
- Jordan Seth Kassalow, of Scarsdale, N.Y.; B.A. University of Vermont, 1983; O.D. New England College of Optometry, 1988.
- Mariana Kastrinakis, of Kensington, Md.; B.A. Harvard University, 1976; M.D., 1980.
- Justus Bhendson Katungu, of Kampala, Uganda; M.B.Ch.B. Kampala University, 1977.
- Upendrakumar Jayendralal Kharod, of Somerset, N.J.; M.B.B.S. Gujarat University, 1963.
- Lynn Sandar Khoo, of Baltimore, Md.; M.B.B.S. Institute of Medicine, Rangoon, 1980.
- Lynnda Kay Kiess, of Baltimore, Md.; B.S. Purdue University, 1984.
- David Kihwele, of Dar-Es-Salaam, Tanzania; M.D. University of Dar Es Salaam, 1977; M.M., 1984.
- Hans-Detlev Kilian, of Berlin, Germany; M.D. University of Hamburg, 1988.
- Mihee Kim, of Cheltenham, Pa.; B.S.N. University of Pennsylvania, 1988.
- Antariksha Kiri, of New Delhi, India; M.B.B.S. University of Delhi, 1987.
- Mary Zeita Kleschen, of Evanston, Ill.; B.A. Indiana University, 1979; M.D., 1983.
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Douglas Ward Trainer, of Silver Spring, Md.; B.S. University of Maryland, 1979. Computer Science.

Mai-Huong Christine Tran, of Chantilly, Va.; A.S. Northern Virginia Community College, 1984; B.S.E.E. George Washington University, 1986. Electrical Engineering.

Roland Morris Travis, of Ellicott City, Md.; B.A. Mississippi State University, 1964; M.Div. Reformed Theological Seminary, 1975; D.Min. Vanderbilt University, 1978. Technical Management.

Theodore J. Trela, of Bethesda, Md.; B.A. University of Massachusetts, 1985. Computer Science.

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Richard David Tschiegg, of Columbia, Md.; B.S.M.E. University of Akron, 1983. Applied Physics.

Lisa Karen Tucker, of Crofton, Md.; B.S. Michigan State University at Buffalo, 1987. Electrical Engineering.

John Lee Tucker, Jr., of Shady Side, Md.; B.S.A.E. University of Maryland, 1967; M.B.A. State University of New York, 1971. Electrical Engineering.

Gregory Eugene Turner, of Gambrills, Md.; B.S. Mary Washington College, 1985. Applied Mathematics.

Gregory Alan Turner, of Mt. Vernon, Ohio; B.S. Bowling Green State University, 1986. Computer Science.

Kevin Ross Turpie, of Columbia, Md.; B.S. University of Maryland, 1986. Applied Mathematics.

Christopher Stephen Turton, of Buffalo, N.Y.; B.S.E.E. State University of New York, 1988. Electrical Engineering.

Ronald Eugene Twist, of Linthicum, Md.; B.S.E.E. Marquette University, 1973. Electrical Engineering.

Marian Saben Ulman, of Burtonsville, Md.; B.S. Virginia Technological Institute and State University, 1984. Electrical Engineering.

Glenn Leonard Unger, of Burtonsville, Md.; A.A. Catonsville Community College, 1981; B.S.E.E. University of Maryland, 1985. Electrical Engineering.

John Thomas Unkenholz, of Columbia, Md.; B.S. George Washington University, 1986. Electrical Engineering.

Aaron David Valdivia, of Columbia, Md.; B.S.E.E. Southern Illinois University, 1981. Electrical Engineering.

Alan Cole Van Ness, of Towanda, Pa.; B.S. Pennsylvania State University, 1987. Computer Science.

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Mary Ellen Verona, of Rockville, Md.; B.S. University of Dayton, 1968; M.Ed. University of Maryland, 1986. Computer Science.

- Steven Ira Vinner, of Silver Spring, Md.; B.S.E.E. University of Maryland, 1983. Electrical Engineering.
- John Kenneth Vlahakis, of Rockville, Md.; B.A. Bucknell University, 1975. Computer Science.
- Kenneth Khiem-Duc Vu, of Fairfax, Va.; B.S.E.E. Virginia Polytechnic Institute and State University, 1988. Electrical Engineering.
- Elizabeth Bieber Wade, of Buckeystown, Md.; B.S. University of Maryland, 1972. Technical Management.
- Joseph Donald Wagner, of Cockeysville, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1987. Electrical Engineering.
- Natalie Maria Wallace, of New Freedom, Pa.; B.S. Loyola College of Maryland, 1985. Electrical Engineering.
- Dale Louis Walters, of Damascus, Md.; B.S. Xavier University, 1964. Technical Management.
- Chee-Hsien Wan, of Dallas, Texas; B.A. State University of New York, 1985. Computer Science.
- Gary Lei Wang, of Toronto, Ontario, Canada; B.S.E.E. University of Maryland, 1981. Computer Science.
- Sherry Denise Ware, of Suffolk, Va.; B.S. Norfolk State University, 1985. Computer Science.
- Ronald Carlos Warehime, of Massillon, Ohio; B.S. University of Akron, 1985. Computer Science.
- Robert Douglas Warthen, of Emmitsburg, Md.; B.S. Virginia Polytechnic Institute and State University, 1988. Computer Science.
- John Francis Waters, Jr., of Hagerstown, Md.; B.S.E.E. West Virginia University, 1987. Electrical Engineering.
- Ralph Watson, of Baltimore, Md.; B.S. Loyola College, 1987. Applied Mathematics.
- Barry Jay Weber, of Columbia, Md.; B.S.E.E. Tufts University, 1987. Electrical Engineering.
- Todd W. Wegman, of Woodville, Ohio; B.S.E.E. University of Toledo, 1985. Electrical Engineering.
- Timothy Robert Weil, of Takoma Park, Md.; B.A. Immaculate Heart College, 1976. Computer Science.
- Stephen Patrick Welby, of Garnerville, N.Y.; B.S. Cooper Union, 1987; M.S.B.A. East Texas State University, 1988. Applied Mathematics.
- Vanoy C. Welch, of Pasadena, Md.; B.S.E.E. New Mexico State University, 1986. Electrical Engineering.
- Randall William Welfley, of Germantown, Md. Computer Science.
- Daniel Herman Wenzlick, of Linthicum, Md.; B.S.E.E. Ohio Northern University, 1986. Electrical Engineering.
- Michael J. West, of Marlton, N.J.; B.A. Rutgers University, 1986. Computer Science.
- Laura Weston, of Bristol, R.I.; B.S.E.E. Pennsylvania State University, 1987. Electrical Engineering.
- Kenneth Paul Westrick, of Hastings, Pa.; B.A. Saint Francis College, 1986. Computer Science.
- Eric R. White, of Sumter S.C.; B.A. University of Virginia, 1983; M.B.A. College of William and Mary, 1985. Computer Science.
- David Lyle Whitmore, of Pasadena, Md.; B.S. University of Akron, 1984. Computer Science.
- Keith Lee Wible, of Jesup, Md.; B.S. Pennsylvania State University, 1983. Computer Science.
- David Ira Wilens, of Herndon, Va.; A.S. Pennsylvania State University, 1981; B.S., 1982. Electrical Engineering.
- R. Allen Wilkinson, of Lewisville, Pa.; B.S. Clarion University, 1986. Computer Science.
- Stephen Allan Williams, Walkersville, Md.; A.S. Midlands Technical College, 1979; B.S. Clemson University, 1981. Computer Science.
- Zane Vincent Wingard, of Birmingham, Ala.; B.S.E.E. Auburn University, 1987. Electrical Engineering.
- Wendy Ann Winner, of Concordville, Pa.; B.A. Franklin and Marshall College, 1984. Computer Science.
- Carl Brian Wischhusen, of Jarrettsville, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1987. Electrical Engineering.
- Robert Francis Wittman, of Apopka, Fla.; B.S.E. Tulane University, 1984. Computer Science.
- Diane M. Wolfe, of Germantown, Md.; B.S. Pennsylvania State University, 1988. Computer Science.
- George John Scott Wolter, of Iselin, N.J.; B.S.E.E. Rensselaer Polytechnic Institute, 1985. Electrical Engineering.
- Andrew Won, of Beltsville, Md.; B.S.E.E. George Washington University, 1984. Electrical Engineering.
- Kwok To Wong, of Columbia, Md.; B.S.E.E. Temple University. Technical Management.
- Andrew David Wood, of Glen Burnie, Md.; B.S.E.E. Georgia Institute of Technology, 1986. Electrical Engineering.
- Carmel Anne Wood, of Bowie, Md.; B.E.S. The Johns Hopkins University, 1985. Electrical Engineering.
- Donald Woodbury, of Jessup, Md. Technical Management.
- Cynthia Leigh Woods, of Elkridge, Md.; A.A. Anne Arundel Community College, 1981; B.S. University of Baltimore, 1986. Computer Science.



Yvette Cordelia Woods, of Glen Burnie, Md.; B.S. Clemson University, 1985. Computer Science.

Alan Robert Wright, of Newark, N.J.; B.S. Kean College, 1985. Computer Science.

Brian Keith Wright, of Columbia, Md.; B.S.E.E. University of Maryland, 1986. Electrical Engineering.

Gregory Lynn Wright, of Columbia, Md.; B.S.E.E. University of Notre Dame, 1987. Electrical Engineering.

Edward Young Wu, of Gaithersburg, Md.; B.S. University of Maryland, 1986. Computer Science.

Kevin Wayne Yant, of Odenton, Md.; B.S. University of Maryland, 1982. Computer Science.

Tieng Kim Yap, of Springfield, Va.; B.S.E.E. Illinois Institute of Technology, 1988. Electrical Engineering.

Denise Elbert Yarema, of Baltimore, Md.; B.S. Drexel University, 1985. Computer Science.

Por-Wun Yeh, of Columbia, Md.; Ph.D. Massachusetts Institute of Technology, 1984. Computer Science.

Paula Jean Young, of Sterling, Va. Computer Science.

Simone Maria Youngblood, of Ellicott City, Md.; B.A. Fitchburg State College, 1984. Computer Science.

Choor C. Yu, of Bel Air, Md. Computer Science.

Yiwei Yu, of New Carrollton, Md.; B.S.E.E. University of Maryland, 1987. Computer Science.

Susan Zammit, of Wheaton, Md.; B.S.E.E. University of Maryland, 1987. Electrical Science.

Richard Joseph Zebrowski, of Columbia, Md.; B.S.M.E. Marquette University, 1984. Computer Science.

Tracy Sue Zimmerman, of Longmeadow, Mass.; B.A. Goucher College, 1984; M.S. The Johns Hopkins University, 1987. Technical Management.

Paul John Zohorsky III, of Columbia, Md.; B.S. United States Naval Academy, 1980. Technical Management.



## *Masters of Science in Engineering in The G.W.C. Whiting School of Engineering*

- Samira Abbasi, of Dhaka, Bangladesh. Geography and Environmental Engineering.
- Garrick Ahn, of East Brunswick, N.J. Electrical and Computer Engineering.
- Baha Avdin Akbora, of Istanbul, Turkey; B.S. Bogazici Universitesi, Turkey, 1988. Civil Engineering. *Computational Methods in Optimization of Structural Frames under Multiple Stress Constraints.*
- Lisa Michelle Beale, of Columbia, Md.; B.S. Howard University, 1988. Computer Science.
- Sarah Ellen Bobbin, of Ellicott City, Md.; B.S. Lafayette College, 1981. Materials Science and Engineering. *Determination of the Flexural Modulus of Thin Films From Laser Ultrasonic Measurement of the First Arrival of the Symmetric Lamb Wave.*
- Kingshuk Bose, of West Bengal, India. Mechanical Engineering. *Crack Growth under Mixed Mode Conditions.*
- James Joseph Carrig, Jr., of Rome, N.Y.; B.S. Syracuse University, 1990. Electrical and Computer Engineering.
- Yingbin Chen, of Baltimore, Md. Electrical and Computer Engineering.
- Dominic Dough-Ming Cheung, of Alhambra, Calif.; B.S. University of California-Berkeley, 1988. Biomedical Engineering. *Automated Image Analysis of Cochlear Nerve Fibers.*
- Marc Harry Cohen, of Baltimore, Md. Biomedical Engineering. *Analog VLSI Implementation of an AutoAdaptive Synthetic Neural Network for RealTime Separation of Independent Signal Sources.*
- Debra L. Cook, of Baltimore, Md. Mathematical Sciences.
- Marc A. Cordaro, of Flushing, N.Y.; B.E. The Cooper Union School of Engineering, 1986. Biomedical Engineering. *A Personal Computer-Based Display of Three-Dimensional Tongue Surface Dynamics.*
- Richard Scott Cost, of Nutley, N.J.; B.A. Colgate University, 1988. Computer Science. *An Instance Based Approach to Learning Classes with Symbolic Features.*
- William Bradford Cross, of Annapolis, Md.; B.S. University of Maryland, 1984. Civil Engineering.
- Hristos Anthanasios Davatzikos, of Kifissia, Greece. Electrical and Computer Engineering.
- Robert P. Dobrow, of Brookline, Mass. Mathematical Sciences.
- Christoforos E. Economakos, of Kifissia, Greece. Electrical and Computer Engineering.
- Angela Kay Eleazer, of Stockton, Calif.; B.S. University of California-Davis, 1989. Computer Science.
- Michael Lawrence Falk, of Massapequa, N.Y.; B.A. The Johns Hopkins University, 1990. Computer Science.
- Ruqiang Feng, of Shanghai, Peoples Republic of China; B.E. Shanghai University of Science and Technology, 1982; Certificate, 1986. Mechanical Engineering. *The Dynamic Compressibility of Elastohydrodynamic Lubricants.*
- Sreenivasa Rao Gorti, of Bombay, India. Civil Engineering. *A Graphical Surface Navigation Technique for Multi-objective Programming Problems.*
- Michael Alan Guttman, of Baltimore, Md.; B.S. The Johns Hopkins University, 1985. Biomedical Engineering. *Contour Estimation in Tagged Cardiac Magnetic Resonance Images.*
- Yan-Hua David He, of Guangzhou, China; M.S. Oklahoma State University, 1988. Mathematical Sciences.
- Vincent Ray Hill, of Towson, Md. Geography and Environmental Engineering.
- Darren Lee Hitt, of Perry Hall, Md. Mechanical Engineering. *Thin-Layer Thermocapillary Flows Driven by Thermal Radiation.*
- David H. Hsu, of Fairfax, Va. Electrical and Computer Engineering.
- Jonathan Simon Kay, of Gaithersburg, Md. Computer Science. *An Empirical Study of Using Certification Trials to Achieve Software Fault Tolerance.*
- Paroo Dolar Koya, of Baltimore, Md. Biomedical Engineering.
- Nagendra Kumar, of Meerut, India. Electrical and Computer Engineering.
- Murray Lantner, of Brooklyn, N.Y.; B.S. The Johns Hopkins University, 1990. Geography and Environmental Engineering.
- SeungJoon Lee, of Seoul, Korea; B.S. Brown University, 1989. Electrical and Computer Engineering.
- Matthew Jerome Lesho, of Ellicott City, Md.; B.S. The Johns Hopkins University, 1989. Biomedical Engineering. *Dynamic Diameter Responses of Rat Intestinal Venules to Prolonged, Stepwise Perturbations in Venular Pressure.*
- Robert Scott Lillard, of Lutherville, Md; B.S. University of Maryland, 1986. Materials Science and Engineering. *A Novel Method for Generating Local Electrochemical Impedance Spectroscopy.*

- Neil Edward Lofgren, of Berwyn Heights, Md. Electrical and Computer Engineering.
- Dennis C. Lu, of Columbus, Ohio; B.S. The Johns Hopkins University, 1990. Materials Science and Engineering. *Nondestructive Examination of Case Hardened Layers by Means of Eddy Currents.*
- Jen-Jen Lung, of Elmhurst, N.Y.; B.S. The Johns Hopkins University, 1990. Computer Science.
- Kenneth Stewart Macturk, of Berwyn Heights, Md.; B.S. The Johns Hopkins University, 1987. Materials Science and Engineering. *The Characterization of Compressive Properties of High Performance Fibers.*
- Donna Jean Mayton, of Petersburg, Va; B.A. University of Virginia, 1986. Materials Science and Engineering. *Optical Beam Deflection Studies of Microwave Absorption and Field Distribution in Dipolar Fluids.*
- Robert Lenard Moore III, of Westminster, Md.; B.S. University of Maryland, Baltimore County, 1989. Mathematical Sciences.
- Ramaswamy Murali, of Bangalore, India. Electrical and Computer Engineering.
- Osamu Nakagome, of Tokyo, Japan; B.E. Hokkaido University, 1984. Geography and Environmental Engineering.
- George John Papamichail, of Athens, Greece. Mathematical Sciences.
- Wai-Tat Peter Poon, of Hong Kong; B.S. University of Calgary, 1988. Biomedical Engineering. *Adaptive Filtering of Time Varying Evoked Potentials.*
- Mark Richards, of Tinton Falls, N.J.; B.S. The Johns Hopkins University, 1988. Biomedical Engineering. *The Development of Poly(phosphoesters) for Biomedical Applications.*
- Michael Rooney, of Clifton Park, N.J. Materials Science and Engineering. *Nondestructive Evaluation of Structural Bonds for Large Solid Rocket Motor Applications.*
- Veljko Roškar, of Zagreb, Yugoslavia. Chemical Engineering. *Dielectric Behavior of Mixtures in the Liquid and Critical Regions.*
- Jason Seth Rothman, of Baltimore, Md.; B.S. Washington University of St. Louis, 1988. Biomedical Engineering.
- Kausik Sarkar, of Calcutta, India. Mechanical Engineering. *A Numerical Study of The GinzburgLandau Equation In Thermocapillary Flow.*
- Dinesh Srivastava, of Allahabad, India. Mechanical Engineering. *Production of Fluorescent Particles for Flow Visualization.*
- Lisa Carol Sword, of Davidsonville, Md.; B.M.E. University of Delaware, 1985. Biomedical Engineering. *A Methodology for the Dynamic Characterization of Collagen Morphology in Tissue Derived Biomaterials.*
- Chen Chia Wang, of Kaohsiung, Taiwan, Republic of China; B.S. National Taiwan University, 1988. Electrical and Computer Engineering.
- Todd Mark Wilson, of Dubois, Pa.; B.S. Case Western Reserve University, 1987. Chemical Engineering. *Electrodeposition of Aluminum from Supercritical Organic Electrolytes.*
- Tsung Chih Winston Woo, of New York, N.Y. Biomedical Engineering. *Fractals in Auditory Nerve Spike Trains.*
- Chihhsien Wu, of Changwa Hsien, Peoples Republic of China. Geography and Environmental Engineering.
- Kewei Yang, of Beijing, Peoples Republic of China; B.S.E. Tsinghua University, 1986. Electrical and Computer Engineering.
- Xin Yu, of Beijing, Peoples Republic of China. Electrical and Computer Engineering.
- Lihui Zhang, of Changsha, Peoples Republic of China. Mathematical Sciences.

## *Masters of Arts in The G.W.C. Whiting School of Engineering*

Harry A. Bowman, of Jacobus, Pa. Geography and Environmental Engineering.

Andrea Maria Buckley, of Ludwigshafen, Germany. A.A. Daytona Beach Community College, 1979; B.S. University of Florida, 1981. Geography and Environmental Engineering. *Analysis of a Sediment Core from a Cypress Swamp in Delaware with a Description of Habitat Succession.*

Robert Lincoln Humphreys, of Salem, Va. Geography and Environmental Engineering. *Accumulation, Regulation and the Political Economy of Third World Urban Housing.*

David Young Parker, Jr., of Mt. Juliet, Tenn. Geography and Environmental Engineering. *Removal of Trihalomethane Precursors By Microfiltration.*

Francine Mithra Steininger, of Washington, D.C.; B.A. Barnard College, 1984. Geography and Environmental Engineering. *Male-Specific Coliphage as Indicators of Fecal Contamination in Chesapeake Bay Soft Shell Clams.*

## *Masters of Arts in The School of Arts and Sciences*

Susan Aaronson, of Great Neck, N.Y.; B.A. State University of New York at Binghamton, 1976; M.I.A. Columbia University, 1978. History.

Christine Marie Adams, of Mankato, Minn.; B.A. University of Minnesota, 1985; M.A. George Washington University, 1987. History.

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Patrick Paul Kaduma Asea, of Kampala, Uganda; B.A. Makerere University, Uganda, 1986; M.A. Bocconi University, Italy, 1988. Economics.

William Joseph Astore, of Brockton, Md.; B.S. Worcester Polytechnical Institute, 1985. History of Science. *American Catholic Responses to Evolutionary Theories, 1845-75.*

Christopher McNeil Bailey, of Charlottesville, Va; B.A. College of William and Mary, 1989. Earth and Planetary Sciences.

Jennifer Marie Bauman, of Salt Lake City, Utah; B.A. University of Utah, 1987. History of Art.

Samuel Davidson Bedinger, of Baltimore, Md.; B.A. California State University-Northridge, 1987. Sociology.

Judy Alice Bieber, of Kenilworth, N.J.; B.A. Rutgers University, 1987. History.

Joanne Biletta, of Silver Spring, Md.; B.A. George Washington University, 1987. Philosophy.

Jeffrey Seth Blitz, of Ridgewood, N.J.; B.A. The Johns Hopkins University, 1990. Writing Seminars. *No One May Touch the King of Corea.*



- Stephen Brock Blomberg, of Monroe, N.C.; B.S. University of Tampa, 1989. Economics.
- Judit Bodnar, of Budapest, Hungary; M.A. Karl Marx University, 1986. Sociology.
- Jozsef Martha Borocz, of Budapest, Hungary. Sociology.
- Claudia Desantis Bowe, of Ruxton, Md.; B.A. Yale University, 1979. Writing Seminars. *Relative Losses*.
- David Bresch, of Briarcliff, N.Y.; B.A. Columbia University, 1988. Political Science. *Physics and Quantitative International Relations Research*.
- Joyce S. Brown, of Baltimore, Md.; B.A. Oberlin College, 1961; M.A.T. The Johns Hopkins University, 1962; M.A. St. Mary's Seminary and University, 1971. Writing Seminars. *Raised*.
- Teresa Marie Buerkle, of Rochester, N.Y.; B.A. New York University, 1984. Writing Seminars. *Where We Start From*.
- Daniela Gemma Capra, of Santhia, Italy. Hispanic and Italian Studies.
- Annalisa Castaldo, of Newtown Square, Pa.; B.A. Wellesley College, 1988. English.
- Iris ShunRu Chang, of Urbana, Ill.; B.S. University of Illinois, 1989. Writing Seminars. *The Poetry of Science*.
- WenJyh Chiu, of Taipei, Taiwan, Republic of China; B.B.A. National Taiwan University, 1987. Economics.
- YoungKeun Chung, of Seoul, Korea; B.Econ. Korea University, 1983. Economics.
- Susan Lynn Dauber, of Oakland, N.J.; B.A. The Johns Hopkins University, 1986. Sociology.
- Samuel Robert Davis, of Towson, Md.; B.S. University of California Los Angeles, 1985. Earth and Planetary Sciences.
- Michael Patrick Dee, of Manchester, Mo.; B.A. Amherst College, 1981. English.
- Alexandra Draganescu, of San Jose, Calif.; B.S. University of California Berkeley, 1988. Chemistry.
- Sasa Dukan, of Zagreb, Yugoslavia. Physics and Astronomy.
- Ian Michael Fried, of Highland Park, Ill. Political Science.
- David Paul Friedlander, of Silver Spring, Md.; B.A. Washington University of St. Louis, 1986. Physics and Astronomy. *An Examination of Comet Halley's Albedo at Varying Heliocentric Distances*.
- Mark Joseph Friedman, of Silver Spring, Md. History. *Magnolias and Mayhem: The Civil Rights Movement in Mississippi Remembered*.
- Norman Philip Friesen, of Winnipeg, Canada. German.
- Annette Frisch, of Ludwigshafen, Germany. Political Science. *Environmental Degradation in Developing Countries: Causes and Policy Approaches*.
- Bao Z. Fu, of Cholon, Viet Nam; B.A. University of Nevada, 1986; M.A. Northwestern University, 1988. Philosophy.
- Qingfen Gan, of Tianjin, Peoples Republic of China. Chemistry.
- Carmen Garcia Rasilla, of Valladolid, Spain. Hispanic and Italian Studies.
- Maria Elizabeth Gough, of Melbourne, Australia. History of Art.
- Lei Guang, of Anhui, Peoples Republic of China; Certificate, Huanghe University, 1987; M.A. Luoyang Foreign Languages University, 1988. Political Science. *The Making of a Reversed Representation System*.
- Patricia Welsh Gucer, of Lutherville, Md; B.A. Dumbarton College of Holy Cross, 1963; M.S. The Johns Hopkins University, 1979. Sociology.
- Roberto Gutierrez, of Bogotá, Columbia; Diploma De Ingeniero, Universidad De Los Andes, 1986. Sociology.
- Patrick Hagopian, of London, England; B.A. University of Sussex, 1982; M.A. University of Pennsylvania, 1989. History.
- Laura Vinson Harper, of Annapolis, Md.; B.A. University of Rochester, 1985. Chemistry.
- DeSales Harrison, of West Palm Beach, Fla.; B.A. Yale University, 1990. Writing Seminars. *Heads of Wild Indigo*.
- Peter Harry Henderson, of Glenwood, Md.; B.A. The Johns Hopkins University, 1982; M.P.P. Harvard University, 1984. History.
- Igor Fedor Herbut, of Beograd, Yugoslavia. Physics and Astronomy.
- Anne Patricia Hillstrom, of Rockville, Md.; B.S. Virginia Polytechnic Institute and State University, 1983. Psychology.
- Tatsuyoshi Hirano, of Niiza Saitama, Japan; B.A. Hitotsubashi University, 1984. Economics.
- Mary Anne Hoppe, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1988. Mathematics.
- Sharyn Elise Horowitz, of Yardley, Pa. Writing Seminars. *Evolution*.
- Tomohike Inui, of Tokyo, Japan; B.E. Hitotsubashi University, 1985. Economics. *Wage Rigidity and Sectoral Adjustment*.
- Jose Ichezekel Itzigsohn, of Jerusalem, Israel. Sociology.
- Elizabeth Margaret Jones, of Ottawa, Ontario, Canada; B.A. McMaster University, 1988. Psychology.
- Howard Gist Jones III, of Tucson, Ariz.; B.S. United States Air Force Academy, 1985. History.
- John Seeberg Jorgensen, of Gaithersburg, Md. Near Eastern Studies.
- Matthew Isaac Joslyn, of Grand Junction, Colo.; B.S. Friends University, 1990. Writing Seminars. *Scientific Perspectives in Health, Sociology, and History*.



- Han Yung Juug, of Seoul, Korea; B.E. Sung Kym Kwan University, Korea, 1981. Economics.
- David John Keavney, of Norwalk, Conn. Physics and Astronomy.
- Joshua Christopher Kendall, of New York, N.Y.; B.A. Yale University, 1984. Humanities.
- Richard Lewis Campbell Keyser II, of Crozet, Va.; B.S. College of William and Mary, 1982. History.
- Kathleen Jane Kingma, of Marietta, Ohio.; B.S. Marietta College, 1984; M.A. Ohio State University, 1989. Earth and Planetary Sciences.
- James Gordon Kirklin, of Tiffin, Ohio. Earth and Planetary Sciences.
- Kim Marie Klein, of Elgin, Neb.; B.A. Creighton University, 1987. History.
- Anthoula Komninou, of Athens, Greece.; Diploma, Aristotle University of Thessaloniki, Greece, 1982. Earth and Planetary Sciences.
- Ruth Kathryn Krekeler, of Cedar Rapids, Iowa; B.A. Cornell University, 1988. German.
- Beth Allyn Krizek, of Silver Spring, Md.; B.S. Duke University, 1988. Chemistry.
- Ashok Kumar, of Ranchi, India. Physics and Astronomy.
- David Alan Kyle, of Naples, Fla.; B.A. Loyola University of Chicago, 1984. Sociology.
- Edward H. Sparrow, of Detroit, Mich.; B.A. Princeton University, 1987. Writing Seminars. *Vampire Deer and Muffled Elephants*.
- Guenho Lee, of Incheon, Korea; B.S. Yonsei University, Korea, 1986; M.S., 1988. Physics and Astronomy.
- Seunghun Lee, of Irijeonbuk, Korea; B.S. Korea University, 1985; M.E., 1987. Physics and Astronomy.
- Seyong Lee, of Seoul, Korea; B.A. Seoul National University, 1982; M.A., 1985. Sociology.
- TackYu Lee, of Seoul, Korea; B.S. Roger Williams College, 1988. Chemistry.
- ChiaJyi Liu, of ChiaYi, Taiwan, Republic of China; B.S. National Taiwan University, 1984. Chemistry.
- Kenneth John Taylor Livi, of Franklin Square, N.Y.; B.S. State University of New York at Stonybrook, 1980; M.S., 1983. Earth and Planetary Sciences.
- Ming Lu, of Beijing, Peoples Republic of China. Chemistry.
- Richard E. Ludwick, Jr., of Libertytown, Md.; B.A. Gettysburg College, 1973. Economics.
- Phillip Bruce Lund, of Bristol, Ind.; B.A. Indiana University, 1985. Writing Seminars. *The Order of Forgetting*.
- Junling Ma, of Lingchen, Peoples Republic of China. Political Science. *The SinoBritish Negotiation Over the Future of Hong Kong and the Future of Hong Kong After the Agreement*.
- Tay-Cheng Ma, of Taipei, Taiwan, Republic of China; B.A. Chinese Cultural University, 1979; M.A. Soochow University, 1981. Economics.
- Jennifer Paulette Macke, of Cincinnati, Ohio; B.A. College of Wooster, 1984. Biology.
- Mohammad Mahroof Tahir, of Palandri, Pakistan. Chemistry.
- Jennifer Collins Manion, of Windsor, Conn.; B.A. Wellesley College, 1987. Philosophy.
- Curtis Michael Masiello, of Woodstock, Conn.; B.A. University of Connecticut, 1982. Political Science. *The Past as Prelude: The Defense Debate in the Cold War*.
- Mark Joseph May, of Rocky River, Ohio; B.S. Purdue University, 1989. Physics and Astronomy.
- Anne Laura McClanan, of Virginia Beach, Va.; B.A. Columbia University, 1989. History of Art.
- Bonnie Sue McElhinny, of Evans City, Pa.; B.Phil. University of Pittsburgh, 1987. English. *The Rational Romantic? The Imperatives of, and Analytical Categories in, Literary Criticism and Mary Wollstonecraft's Letters Written During a Short Residence in Sweden, Norway, and Denmark*.
- Frederick Charles Merkel, of Ambler, Pa.; B.A. University of Delaware, 1989; B.S., 1989. Psychology.
- Ulrike Barbara Moetzel, of Hilzingen, Germany. Political Science. *Budget Politics: The Background and Development of the Balanced Budget and Emerging Deficit Control Act of 1985*.
- Christopher Anthony Moffatt, of Toronto, Canada; B.S. University of Toronto, 1989. Psychology.
- Francesco Paolo Mongelli, of Rome, Italy; Certificato Libera, Universita Internazionale, 1984. Economics.
- Hideaki Mori, of Nagasaki, Japan; B.A. Keio University, 1983; M.A. International Christian University, 1987. Economics.
- Dean Mozetic, of Koper, Yugoslavia. Physics and Astronomy.
- Douglas Patrick Munro, of Salisbury, England; M.A. University of Edinburgh, Scotland, 1986. Political Science. *The Nationalization of Southern Politics: Southern Democratic Senators, from Eisenhower to Bush*.
- Muslehuddin, of Islamabad, Pakistan. Economics.
- Bernadette Russell Naden, of Uniontown, Pa.; B.A. Dickinson College, 1980. Writing Seminars. *Selected Hardwoods, A Collection of Poems*.
- Paul Neave Nelles, of Vancouver, British Columbia, Canada; B.A. University of British Columbia, 1987. Humanities.

- Gerard Anthony O'Donovan, of Galway, Ireland; B.A. University College Galway, 1983; M.A., 1988. Writing Seminars. *Columbus Rides Again*.
- Dawn O'Rourke, of Brooklyn, N.Y.; B.S. State University of New York at Albany, 1989. Chemistry.
- Kathleen Roseanna O'Toole, of Wilmington, Del.; B.A. Catholic University of America, 1974. Writing Seminars. *Canticles in Ordinary Time*.
- John Frederick Packham, of Oklahoma City, Okla.; B.A. University of Oklahoma, 1982. Sociology.
- JooHo Park, of Seoul, Korea; B.A. Seoul National University, 1988. Economics.
- Alison Marie Parker, of Los Angeles, Calif. History.
- Thomas Cantzon Paul, of Cocoa Beach, Fla.; B.S. Georgia Institute of Technology, 1989. Physics and Astronomy.
- James Ellis Porter, of Hamilton Square, N.J.; B.A. Rider College, 1986. Political Science. *Collaboration, The Suppression of Mau Mau and the Establishment of 'Moderate Rule' in Kenya, 1953-1973*.
- David Michael Rajnes, of Johnson City, N.Y.; B.A. University of Pennsylvania, 1973; M.M. Catholic University of America, 1980; M.A. American University, 1985. Economics.
- Catherine Anna Rhodes, of Santa Cruz, Calif.; B.A. University of California Santa Cruz, 1978. Anthropology.
- Andrew Chamberlin Rieser, of Bedford, Mass. History. *Discourse and the 'Loss' of China: The Owen Lattimore Debates*.
- Jonathan Abram Roberts, of New York, N.Y. History. *Voices of an Antiwar Movement: Baltimore during the Vietnam War*.
- Susan Louise Rogers, of Los Angeles, Calif.; B.A. Princeton University, 1982. Writing Seminars. *Shining with Violets*.
- Jill Dana Rothstein, of Philadelphia, Pa.; B.A. Adelphi University, 1990. Writing Seminars. *The Green Start*.
- Deirdre Alexia Royster, of Arlington, Va.; B.A. Virginia Polytechnic Institute and State University, 1987. Sociology.
- Susan Elizabeth Sakimoto, of Walla Walla, Wash.; B.A. Whitman College, 1989. Earth and Planetary Sciences.
- Amalia Sapag, of Santiago, Chile. Chemistry.
- Steven James Sarson, of Leicestershire, England; B.A. University of East Anglia, England, 1987. History.
- Steven Boyd Saum, of Coronado, Calif.; B.A. Emory University, 1989; M.A., 1989. Writing Seminars. *Wreckage*.
- Thomas Klaus Schaller, of Gerbrunn, Germany. Political Science. *International Press Coverage of Recent Changes in East Germany*.
- Richard Young Schauffler, of Washington, D.C.; B.A. University of California Berkeley, 1976. Sociology.
- Carlos Rezende Seligo, of Corte Medera, Calif.; B.A. University of California Berkeley, 1989. Writing Seminars. *Nine Deaths*.
- Julia Smith Sensenbrenner, of Neenah, Wis.; B.A. Princeton University, 1983. Sociology.
- Marc Bernard Setterlund, of Arlington, Wis.; B.A. Gustavus Adolphus College, 1989. Psychology.
- Mary Margaret Shaffer, of Lexington, Va.; B.A. University of Virginia, 1986. Hispanic and Italian Studies.
- Emmett Joseph Sharkey, of Yuba City, Calif.; B.A. University of Notre Dame, 1990. Writing Seminars. *Stories for a Thesis*.
- Ravi Sharma, of Arlington, Va. Economics.
- ShwuJane Shieh, of Taoyuan, Taiwan, Republic of China; B.B.A. National Taiwan University, 1984; M.B.A., 1986. Economics.
- Hyungsoo Shim, of Seoul, Korea; B.A. Seoul University, 1976; M.A., 1985. Economics.
- Jean Lara Silver, of Columbia, Md.; B.A. Wesleyan University, 1990. Writing Seminars. *Wars On and With Disease: A Look at the Marketing of Condoms and at Forms of Biological Warfare*.
- Lynn Kerrell Simmons, of Lake Tahoe, Calif.; B.A. University of California Berkeley, 1987. Earth and Planetary Sciences.
- John Carl Francis Siman, of Baltimore, Md. Classics.
- Laura Marie SingelHenderson, of Owings Mills, Md.; B.S. Juniata College, 1987. Chemistry.
- Eugene A. Smelik, of Morehead City, N.C.; B.S. Cleveland State University, 1982. Earth and Planetary Sciences.
- Carl Edward Smith, Jr., of Charleston, W.Va. Near Eastern Studies.
- Laura Isabelle Smith, of Havertown, Pa. Psychology. *Self-Concept Discrepancy and Recovery From Sexual Assault*.
- Judith Ann Smrha, of Oakland, Calif.; B.A. Mills College, 1987. Economics.
- Anil Sookdeo, of Natal, South Africa. History.
- Edward H. Sparrow, of Detroit, Mich.; B.A. Princeton University, 1987. Writing Seminars. *Vampire Deer and Muffled Elephants*.
- Alan Richard Spies, of Carriere, Miss. Physics and Astronomy.
- Diana Lynne Steele, of Princeton, N.J.; B.A. Colgate University, 1985. Chemistry.
- Brooke Charles Stevens, of New York, N.Y. Writing Seminars. *The Actor Prepares*.

- Melissa Anne Stewart, of Alexandria, Va.; B.A. Hamilton College, 1981; M.A. Duke University, 1986. Hispanic and Italian Studies.
- William Kelleher Storey, Jr., of Mount Sinai, N.Y.; B.A. Harvard University, 1987. History.
- Mary Jane Sundius, of Monkton, Md.; B.A. Yale University, 1978. Sociology.
- Gregory Hawkes Symmes, of North Plainfield, N.J. Earth and Planetary Sciences.
- István Szapudi, of Siófok, Hungary. Physics and Astronomy.
- Sohayla Taie Tehrani, of Tehran, Iran; B.A. Tehran University, 1987. Sociology.
- Roderick S.C. Tang, of Sarawak, Malaysia; B.A. College of Santa Fe, 1987. Chemistry.
- Helen Fletcher Thompson, of Bangor, Maine; B.A. Amherst College, 1989. Writing Seminars. *Science and I: A Collection of Essays*.
- Henry Charles Topper, of Baltimore, Md.; B.A. University of Notre Dame, 1967. Political Science. *Lenin on Party Leadership*.
- Drew Avedis Torigian, of Paramus, N.J. Mathematics.
- Shwu Chen Tsay, of Taipei, Taiwan, Republic of China; B.S. National Taiwan University, 1985. Chemistry.
- Jeffrey ChunLee Tseng, of Los Altos, Calif. Physics and Astronomy.
- Ruiqian Wan, of Xian, Peoples Republic of China. Psychology.
- Stefan Weiler, of Fussgoenheim, Germany. Political Science. *President Bush and the Polish and Hungarian Initiative of 1989*.
- Stuart Alan Weinstein, of North Bellmore, N.Y.; B.S. State University of New York at Binghamton, 1983. Earth and Planetary Sciences.
- Wesley Marshak Weissberg, of New York, N.Y.; B.A. University of California Berkeley, 1987. Writing Seminars. *What If They Ate You Too*.
- Ulrike Weissenberger, of Dogern, Germany. Political Science. *The Struggle Over the War Powers Act Under the Reagan and Bush Administrations*.
- Helen Wheatley, of Portland, Ore.; B.A. University of California-Santa Cruz, 1983. History.
- Torrey Stephen Whitman, of Millersville, Md.; B.A. Michigan State University, 1971; M.A. Drexel University, 1973. History.
- James Scott Wiley, of Vienna, Va.; B.A. St. Lawrence University, 1978. Political Science. *The Transformation of Empiricism: David Hume and the Problem of Theory and Practice*.
- George Wilson, of Spring Valley, N.Y.; B.A. State University of New York, 1978; M.A. Brown University, 1983. Sociology.
- Celia Marshall Wren, of Fairlee, Vt.; B.A. Radcliffe College, 1989. *The Bat Flew*.
- Karin Anne Wulf, of Chevy Chase, Md.; B.A. American University, 1985. History.
- Viki Zavales, of Bergenfield, N.J. Hispanic and Italian Studies.
- Chen Zhu, of Jiangsu, Peoples Republic of China; B.E. Chengdu College of Geology, 1982. Earth and Planetary Sciences.
- Min Zhu, of Shanghai, Peoples Republic of China. Economics.
- Jonathan Lurie Zimmerman, of Baltimore, Md.; B.A. Columbia University, 1983. History.



## *Doctors of Education in The School of Continuing Studies*

Barbara Grace Cottom, of Baltimore, Md.; B.S. Shippensburg University, 1969; M.S. The Johns Hopkins University, 1980. *The Effects of Multisensory Authoring Computer System (MACS) with and without Voice Accompaniment on the Word Recognition of Students with Learning Disabilities.*

Evelyn M. Dailey, of Baltimore, Md.; B.S. Frostburg State University, 1973; M.Ed. Towson State University, 1974; C.A.S. The Johns Hopkins University, 1986. *The Relative Efficacy of Cooperative Learning Versus Individualized Learning on the Writing Performance of Adolescents with Writing Problems.*

Marjorie Ann Fessler, of Ellicott City, Md.; B.A. Brooklyn College, 1968; M.S. University of Wisconsin, 1971; M.S.E., 1981. *The Effects of Self-Monitoring on the Academic Performance and On-Task Behavior of Children with Head Injuries.*

Ellen Flood Gaske, of Rockville, Md. *The Effects of a Predictable Book Writing Strategy on the Spontaneous Writing of Students with Mild Handicaps.*

Elizabeth I. Legenhausen, of Baltimore, Md.; B.A. Catholic University of America, 1968; M.A. Towson State University, 1982. *The Effectiveness of Instruction Using a Microcomputer Equipped with LOGO Microworlds on the Acquisition of School Readiness Skills by Preschool Children.*

Linda Mary Loughrey, of Severna Park, Md. *The Effects of Multi-sensory Reading Techniques upon the Recognition and Utilization of Function Words by Aphasic Stroke Patients.*

Sarah Jane McPherson, of Griffin, Ga.; B.A. University of Arkansas, 1969; M.S. The Johns Hopkins University, 1982. *The Effects of Metacognitive Strategy Training Using Computer Assisted Instruction for Vocabulary Acquisition by Students with Learning Disabilities.*

Alan G. Nemerofsky, of Plainfield, N.J.; M.S. West Virginia University, 1971; M.A. Loyola College, 1976. *Child Sexual Abuse Prevention: Teacher and Child Variables Affecting the Learning of Concepts and Skills in Sexual Abuse Prevention Programs.*

Mary Curley O'Melia, of Timonium, Md.; B.A. University of North Carolina, 1972; M.S. The Johns Hopkins University, 1981. *The Effects of Cooperative Homework Teams on the Acquisition of Basic Mathematics Skills by Secondary Students with Mild Handicaps.*

Dorothy Ann Wood, of Baltimore, Md.; B.A.B.S. College of Notre Dame of Maryland, 1953; M.Ed. Loyola College, 1972. *The Effects of Tape-Recorded Self-Instruction Cues on the Academic Performance of Students with Learning Disabilities.*

## *Doctors of Musical Arts in The Peabody Conservatory of Music*

Gary Michael Brown, of Benton, Ark.; B.M. Ouachita Baptist University, 1984; M.M. University of Colorado at Boulder, 1986. Composition.

Charles Ronald Ellis, of Boston, Mass.; B.M.E. Indiana University, 1970; M.M. New England Conservatory of Music, 1975. Conducting.

James Spencer Fay, of Croom, Md; B.M. Philadelphia Musical Academy, 1966; M.M. Catholic University of America, 1970. Clarinet. *The Clarinet and Its Use as a Solo Instrument in the Chamber Music of Brahms.*

Cyrus Ginwala, of Baltimore, Md.; B.M. Boston University, 1984; M.M. The Johns Hopkins University, 1987. Conducting.

Mark Daniel Hipleh, of Raymore, Mo.; B.S. William Jewell College, 1985; M.M. Ithaca College, 1987. Composition.

Elizabeth Leach Lawrence, of McLean, Va.; B.M. University of North Carolina, 1977; M.M. University of Illinois at Urbana-Champaign, 1979. Voice.

Dolores A. Leffingwell, of Baltimore, MD.; A.B. Mount Saint Joseph's College, 1962; M.M. Syracuse University, 1986. Voice.

Mark Markham, of Pensacola, Fla.; B.M. The Johns Hopkins University, 1984; M.M. The Johns Hopkins University, 1986. Piano.

Louis Stewart, of Elma, Wash.; B.M. Whitman College, 1966; M.M. New England Conservatory, 1968. Conducting. *Music Composed for Martha Graham: A Discussion of Musical and Choreographic Collaborations.*

Lois Svard, of Lewisburg, Pa.; B.M. Concordia College, 1969; M.M. University of Colorado at Boulder, 1971. Piano. *Illusion in Selected Keyboard Works of Gyorgy Ligeti.*



## *Doctors of Science in The School of Hygiene and Public Health*

- Anhari Achadi, of Jakarta, Indonesia; M.D. University of Indonesia, 1972; M.P.H., 1974. *International Health. The Determinants of Immunization Services Utilization in a Rural Area of West Java, Indonesia.*
- Peter Geoffrey Barss, of Wolfville, Canada; B.Sc. Acadia University, 1967; M.D. University of Chicago, 1971; M.P.H. The Johns Hopkins University, 1986. *Health Policy and Management. Health Impact of Injuries in the Highlands of Papua New Guinea: A Verbal Autopsy Study.*
- Yong-Yuan Chang, of Kaohsiung, Republic of China; B.S. National Taiwan University, 1972; M.P.H., 1974. *Mental Hygiene. International Comparisons of Schizophrenic Risk.*
- John-Paul Clark, of Titusville, Pa.; B.A. The Johns Hopkins University, 1984; M.H.S., 1985; M.Sc. London School of Economics, 1986. *International Health. Economic Impact of Chemotherapy for Onchocerciasis on Productivity of West African Rubber Tree Tappers.*
- James Carl Coleman, of Columbia, Md.; B.S. Knoxville College, 1951; B.S. Ohio State University, 1957; M.S. Wayne State University, 1970. *Health Policy and Management. Patterns of Drug Therapy Regimens for High Blood Pressure Control among Black and White Hypertensives in Central Maryland.*
- Polly Jacquelin Hoppin, of Takoma Park, Md.; B.A. Princeton University, 1981. *Health Policy and Management. Pesticide Use on Four Non-Traditional Crops in Guatemala: Policy and Program Implications.*
- Jean Ann Langlois, of Baltimore, Md.; B.A. University of Rhode Island, 1979; M.S. Purdue University, 1982; M.P.H. The Johns Hopkins University, 1986. *Health Policy and Management. Dependence in Activities of Daily Living and the Risk of Fall Injury Events among Community-Dwelling Elderly.*
- Barbara Luke, of Chicago, Ill.; B.S. Columbia University, 1972; M.A. New York University, 1974; M.P.H. Columbia University, 1978. *Maternal and Child Health. The Association between Maternal Weight Gain and the Birthweight of Twins.*
- Cameron Alexander Mustard, of St. John's, Canada; B.A. Brown University, 1975. *Behavioral Sciences and Health Education. Maternal Education and the Incidence and Treatment of Diarrheal Disease in Young Children: Honduras 1981-1983.*
- Louis Walter Reedt, of Chestertown, Md.; B.A. Washington College, 1973; M.A., 1977. *Mental Hygiene. Marijuana Coping and Abstinence Symptoms.*
- Alexander F. Ross, of Washington, D.C.; B.A. State University of New York at Albany, 1984. *Health Policy and Management. Malpractice Claims in Maryland Emergency Departments 1978-1987: Implications for Risk Management.*
- Kathy Salaita, of Reston, Va.; B.A. University of Virginia, 1979; M.S. University of Texas, 1981. *Health Policy and Management. Spousal Concordance for Systolic and Diastolic Blood Pressure.*
- William G. Sciarillo, of Baltimore, Md.; B.A. Temple University, 1974; B.S.N. University of Pennsylvania, 1976; M.S.N. University of Colorado, 1979. *Maternal and Child Health. The Influence of Lead Exposure on Maternal-Reported Behavior in Young Children.*
- Xiaobin Wang, of Beijing, Republic of China; M.D. Beijing Medical University, 1983; M.P.H. Tulane University, 1987. *Maternal and Child Health. Differences in Intrauterine Growth and Infant Mortality among Chinese, Japanese, and White Americans.*
- Daniel William Webster, of Carrollton, Ky.; B.A. University of Northern Colorado, 1982; M.P.H. The University of Michigan, 1985. *Health Policy and Management. Determinants of Pediatricians' Firearm Injury Prevention Counseling Practices.*
- Siswanto Agus Wilopo, of Yogyakarta, Indonesia; M.D. Gadjah Mada University, 1979; M.Sc., 1983; M.Sc. McMaster University, 1985. *Population Dynamics. Assessing the Impact of Child Survival Interventions in Indonesia: A New Index of Health Status.*
- Siti Norazah Zulkifli, of Kuala Lumpur, Malaysia; B.Sc. University of London, 1982; M.Sc., 1983. *Maternal and Child Health. The Relationship Between Dietary Factors and Blood Pressure among African-American Adolescents in Baltimore: With Special Emphasis on Calcium.*

## *Doctors of Public Health in The School of Hygiene and Public Health*

Ahmed S. Aboraya, of Cairo, Egypt; M.B.B.Ch. Cairo University, 1977; M.P.H. The Johns Hopkins University, 1987. Mental Hygiene. *Determinants of Disabling Injuries.*

Abdullah-Hel Baqui, of Dhaka, Bangladesh; M.B.B.S. Dhaka Medical College, 1977; M.P.H. The Johns Hopkins University, 1985. International Health. *Epidemiology of Persistent Diarrhea in Bangladeshi Children.*

Robyn R.M. Gershon, of Columbia, Md.; B.S. Quinipiac College, 1976; M.H.S., 1981. Environmental Health Sciences. *Barriers to Precaution Adoption among Health Care Workers at Risk of Occupational Exposure to HIV-1.*

Jane Halpern, of Baltimore, Md.; B.A. University of Wisconsin, 1968; M.D. Albert Einstein College of Medicine, 1972; M.P.H. The Johns Hopkins University, 1978. Health Policy and Management. *Variations in Rates and Appropriateness of Coronary Bypass Surgery in Maryland.*

Dwip Kitayaporn, of Bangkok, Thailand; B.Sc. Mahidol University, 1977; M.D., 1979; M.P.H. The Johns Hopkins University, 1987. Epidemiology. *Reappraisal of G-6-PD Deficiency and Falciparum Malaria.*

Soewarta Kosen, of Jakarta, Indonesia; M.D. University of Indonesia, 1976; M.P.H. University of the Philippines, 1982. International Health. *Performance of Health Centers in Delivery of Immunization Services in Timor, Indonesia.*

Dileep Vishnu Mavalankar, of Ahmedabad, India; M.B.B.S. Gujarat University, 1982; M.P.H. The Johns Hopkins University, 1983; M.D. Gujarat University, 1987. Population Dynamics. *Quantification of Risk Factors for Perinatal Mortality and Low Birth Weight in Ahmedabad, India.*

Iman Adel Nuwayhid, of Beirut, Lebanon; B.S. American University of Beirut, 1980; M.D., 1984; M.P.H. The Johns Hopkins University, 1985. Environmental Health Sciences. *Recent Work-Related Activities and the Onset of First-Time Low Back Pain: A Case-Control Study of the New York City Firefighters.*

Armando Peruga-Urrea, of Zaragoza, Spain; M.D. Zaragoza University, 1979; M.P.H. The Johns Hopkins University, 1981. Health Policy and Management. *Determinants of AIDS Knowledge about Transmission Modes, Preventive Measures and Risk Groups in a Sample of the General Population of Madrid.*

Mary Lou Rorabaugh, of Clermont, Fla.; B.S. Nyack College, 1963; M.S.N. University of Virginia, 1979; M.P.H. The Johns Hopkins University, 1984. Maternal and Child Health. *Catch-Up Growth in Young Hmong Refugee Children.*

Karen Adelson Strauss, of Memphis, Tenn.; B.A. Sweet Briar College, 1976; M.H.S. The Johns Hopkins University, 1983. Environmental Health Sciences. *Perceived Environmental Threat and Hazard Awareness among Residents in Six Communities in the United States.*

Virginia Marie Regis Turner, of Newton, Mass.; B.S. Boston College, 1968; M.P.H. Harvard University, 1980. International Health. *Risk Factors for Trichiasis in Women, Kongwa, Tanzania: A Case Control Study.*

## *Doctors of Philosophy in The School of Hygiene and Public Health*

Kanta Alvi, of Dhaka, Bangladesh; B.S. University of Dhaka, 1978; M.A. DePaul University, 1980. Population Dynamics. *Income Aspirations and Migrant Women's Motivation to Work The Case of Malaysia.*

Annette Eiko Ashizawa, of Sacramento, Calif.; B.A. San Francisco State University, 1976; M.P.H. The Johns Hopkins University, 1981. Environmental Health Sciences. *Coal Workers' Respiratory Disease Program Evaluation.*

Marycatherine Augustyn, of Baltimore, Md.; B.A. Drew University, 1981. Behavioral Sciences and Health Education. *Condom Use in an Urban Population: An Application of the Theory of Planned Behavior.*

Julie A. Baldwin, of Boulder, Colo.; B.A. University of Colorado, 1984. Behavioral Sciences and Health Education. *Preventing HIV/AIDS Among Adolescents: The Role of Self-Efficacy Enhancing Approaches.*

- Michael Edward Baser, of Los Angeles, Calif.; B.A. University of California at San Diego, 1974; M.S. Harvard University, 1977. Environmental Health Sciences. *Distribution of Ventilation in the Aging Lung.*
- Mark Lloyd Chernaik, of Eugene, Ore.; B.S. University of Massachusetts, 1984. Biochemistry. *The Contribution of Individual Cysteine Residues to the Cadmium Detoxification Function of Metallothionein.*
- Mary Jean Cismowski, of Chula Vista, Calif.; B.A. Occidental College, 1983. Biochemistry. *Structural Characterization of Chinese Hamster Metallothionein and Metallothionein Mutants.*
- Lark Amelia Claassen, of Seattle, Wash.; B.S. University of Puget Sound, 1982. Biochemistry. *Structure-Function Analysis of the Escherichia coli UvrA DNA Repair Protein.*
- Susan L. Gdovin, of Baltimore, Md.; B.S. Shippensburg University, 1980. Immunology and Infectious Diseases. *Molecular Mechanisms of Action of the Visna Virus Tat Protein.*
- Gordon Jonathan Harris, of Chappaqua, N.Y.; B.S. Lafayette College, 1986. Environmental Health Sciences. *Objective Quantification of the Regional Distribution of Radioactivity in Cerebral Emission Computed Tomography.*
- Michael A. Hauser, of Ivy, Va.; B.A. University of Pennsylvania, 1983. Biochemistry. *Functional Anatomy of the Substrates for Hp1 Integration.*
- Christina August Hecht, of Berkeley, Calif.; B.A. Stanford University, 1978. Population Dynamics. *Amniocentesis and Down Syndrome: The Impact of a Public Health Intervention.*
- Allan Hildesheim, of Sao Paulo, Brazil; B.A. Washington University, 1985. Epidemiology. *Herpes Simplex Virus Type-2: Independent, Synergistic, or No Effect on Risk of Invasive Cervical Cancer.*
- Alison Snow Jones, of Baltimore, Md.; B.A. Millersville State College, 1979. Health Policy and Management. *The Effects of Surgeon Supply on the Demand for Surgery.*
- Mohammad Rezaul Karim, of Dhaka, Bangladesh; B.Sc. Dhaka University, 1979; M.Sc., 1981; Sc.M. The Johns Hopkins University, 1986. Biostatistics. *Generalized Linear Models with Random Effects.*
- Karungari Kiragu, of Nakuru, Kenya; B.A. College of St. Teresa, 1981; M.P.H. University of South Carolina, 1984. Population Dynamics. *The Determinants of Premarital Sexual Activity and Contraceptive Use Among In-School Adolescents in Kenya.*
- Ann Carroll Klassen, of Baltimore, Md.; B.A. Oberlin College, 1978. Behavioral Sciences and Health Education. *The Impact of Chronic Disease on Preventive Screening for Cervical Cancer in Older Women.*
- Chun-Chung Law, of Kowloon, Hong Kong; M.S. State University of New York at Stonybrook, 1985. Biostatistics. *Statistical Methods for the Analysis of Interval Censored Data.*
- Gerard Frederic LeBlond, of Portland, Maine; B.Sc. St. Francis Xavier University, 1978; M.S. University of Maine, 1983. Biochemistry. *New Methods for Studying the DNA of Complex and Simple Genomes.*
- Xin-Hua Liu, of Shanghai, People's Republic of China; M.A. Shanghai First Medical College, 1982. Biostatistics. *Estimating Functions in Regression Models with Error-In-Covariates.*
- Carol Magee Maschal, of Temple Hills, Md.; B.S.N. University of Maryland, 1964; M.P.H. The Johns Hopkins University, 1978. Environmental Health Sciences. *Occupational and Environmental Factors in Congenital Extrahepatic Biliary Atresia.*
- F. Javier Nieto Garcia, of Ponferrada, Spain; M.D. University of Valencia, 1978. M.P.H. Institute of Public Health, 1985; M.H.S. The Johns Hopkins University, 1989. Epidemiology. *Childhood Weight and Growth Rate as Predictors of Adult Mortality and Hypertension.*
- Christina Han Park, of Laurel, Md.; B.A. Goucher College, 1982; M.H.S. The Johns Hopkins University, 1984. Epidemiology. *Etiologic Heterogeneity of Anencephalus and Spina Bifida.*
- Mary M. Prince, of Syracuse, N.Y.; B.S. Syracuse University, 1982; M.S. University of Rochester, 1984. Epidemiology. *The Effects of Noise and Smoking on Hearing Loss in an Occupational Cohort Study.*
- Mizanur Rahman, of Dhaka, Bangladesh; B.S. Ohaka Univeristy, 1973; M.S., 1974; M.A. Vrije University, 1983. Population Dynamics. *Gender Preference, Fertility, and Excess Female Child Mortality in Matlab, Bangladesh.*
- Nancy Knowles Russell, of La Jolla, Calif.; B.A. Stanford University, 1985. Behavioral Sciences and Health Education. *Health Promotion Practices of Primary Care Physicians: Direct Observation of Lifestyle Discussion in Routine Visits.*
- P. Sankara Sarma, of Pirappancode, India; B.Sc. University of Kerala, 1979; M.Sc. University of Calicut, 1981. M.H.S. The Johns Hopkins University, 1989. Population Dynamics. *A Study of Population Momentum Under Changing Vital Rates.*
- Amanda Benedict Sonnega, of Brooklyn, N.Y.; B.A. Drew University, 1984. Behavioral Sciences and Health Education. *Psychosocial Factors and Immune Status in HIV-1 Infection.*
- Kathryn Mary Stephens, of Lafayette, Calif.; B.S. University of California at Davis, 1984. Biochemistry. *Properties of Escherichia coli DnaB Helicase in Bacteriophage Lambda DNA Replication.*
- Robert Milton Stephens, of Middletown, Md.; B.S. University of Maine, 1978; M.S., 1979. Immunology and Infectious Diseases. *Cloning and Characterization of cDNA Clones Encoding the ELAV TAT and REV Genes.*
- James Edward Swauger, Jr., of Boston, Mass.; B.S. Northeastern University, 1985. Environmental Health Sciences. *Role of Free Radical Metabolites in Tumor Promotion and Progression by Benzoyl Peroxide.*



Chun-Ming Tseng, of Miaoli, Republic of China; M.D. Taipei Medical College, 1981; M.H.S. The Johns Hopkins University, 1985. Environmental Health Sciences. *Hypoxic Pulmonary Vasoconstriction in Normal and Pathologic Hamsters*.

Lorraine Evelyn Cathers Twerdok, of Rockville, Md.; B.S. University of Pittsburgh, 1980; M.S. University of Wisconsin, 1982. Environmental Health Sciences. *Target Organ Determinants in Chemically-Induced Bone Marrow Toxicity*.

Dean Foster Wong, of Lutherville, Md.; B.Sc. University of Western Ontario, 1972; M.D. University of Toronto, 1977. Environmental Health Sciences. *The Imaging and Quantification of D2 Dopamine Receptors in Living Human Brain*.

Elizabeth A. Zenger, of Chicago, Ill.; B.A. Beloit College, 1979; M.A. Arizona State University, 1981; M.H.S. The Johns Hopkins University, 1989. Population Dynamics. *Heterogeneity among Families in Infant Mortality and Reproductive Patterns in Matlab, Bangladesh*.

Xi-Yan Zhao, of Chengdu, People's Republic of China; B.A. Sichuan University, 1982. Population Dynamics. *The Demographic Change and Women's Economic Status in Rural China*.

### *Doctors of Philosophy in The Paul H. Nitze School of Advanced International Studies*

Ronald D. Asmus, of Mequon, Wisc.; B.A. University of Wisconsin, 1979; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1981. *Bonn and East Berlin: The Politics of German Unity and Partition*.

Michael Thomas Clark, of Silver Spring, Md.; B.A. Harvard University, 1979; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1986. *The Tragic Science of Political Realism: Power, Necessity and Deliberation in Thucydides*.

Philip Howard Gordon, of Fairfax, Va.; B.A. Ohio University, 1984; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1987. *Struggling to Adapt: French National Security Policy and the Gaullist Legacy, from the 1960s to the End of the Cold War*.

Christopher Robert Rossi, of Iowa City, Iowa; B.A. Washington University, 1980; J.D. 1982; LL.M. University of London, 1983; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1985. *Equity as a Source of International Law? A Legal Realist Approach to the Process of International Decisionmaking*.

Xiaofang Shen, of Nanking, China; B.A. Smith College, 1983; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1985. *Direct Foreign Investment and Economic Development: A Study of the Chinese Experience, 1979-1988*.

Juan Gabriel Tokatlian, of Buenos Aires, Argentina; Bachelor University of Belgrano, 1978; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1981. *The Political Economy of Colombian-U.S. Narcodiplomacy*.

Scott David Tollefson, of Lacey, Wash.; B.A. Westmont College, 1979; M.A. University of California Santa Barbara, 1980; M.A. The Paul H. Nitze School of Advanced International Studies, The Johns Hopkins University, 1984. *Brazilian Arms Transfers, Ballistic Missiles, and Foreign Policy: The Search for Autonomy*.



## *Doctors of Medicine in The School of Medicine*

- Lisa Shoshana Abrams, of Baltimore, MD; A.B., Harvard College, 1987.
- Raya Al-Mufti, of Lafayette, CA; B.A., Wellesley College, 1987.
- Perry William Alexion, of Seabrook, MD; B.S., University of Maryland (College Park), 1987.
- Ilham A. Algayed, of Alexandria, VA; B.A., Johns Hopkins University, 1987.
- Katrina Alison Armstrong, of Northport, AL; B.A., Yale University, 1986.
- Laura Joan Balcer, of Timonium, MD; B.S., College of William and Mary, 1987.
- Tamara Dale Ball, of Stevensville, MI; B.S., University of Michigan (Ann Arbor), 1985.
- Christina Ann Bandera, of Ambler, PA; B.S., Harvard College, 1987.
- Beverly Anne Banks, of Baltimore, MD; B.S., Duke University, 1984.
- Carole Annelisa Baraldi, of Houston, TX; B.A., Rice University, 1987.
- Brock Allen Beamer, of Arcadia, OH; B.A., Kent State University, 1986.
- Tomasz M. Beer, of Rockville, MD; B.A., Johns Hopkins University, 1986.
- Leslie John Bisson, of Edina, MN; B.S., University of Minnesota (Twin Cities), 1987.
- Arthur Dewayne Black, of Los Angeles, CA; B.S., University of California (Los Angeles), 1987.
- Lauren Rae Boglioli, of North Bellmore, NY; B.S., Adelphi University, 1987.
- Brenda Lynn Bouchard, of St. Albans, VT; B.A., University of Vermont, 1987.
- William Matthew Bowling, of East Windsor, NJ; B.A., M.A., Washington University in St. Louis, 1987.
- Michael Patrick Boyle, of Gaithersburg, MD; B.S., University of Maryland (College Park), 1986.
- Malcolm Vernon Brock, of Hamilton, Bermuda; B.A., Princeton University, 1985; M.Litt., University of Oxford, 1988.
- Knute Carl Buehler, of Roseburg, OR; B.S., Oregon State University, 1986.
- Leon Albert Bynoe, of Bronx, NY; Sc.B., Brown University, 1987.
- Christopher Yat-Chuen Chow, of Islip, NY; B.S., Massachusetts Institute of Technology, 1986.
- Martin Jason Citardi, of New Rochelle, NY; B.A., Johns Hopkins University, 1987.
- Michael Edward Coghlan, of Birmingham, AL; B.S., University of Alabama (Birmingham), 1987.
- Eric Jason Cohen, of Dix Hills, NY; B.S., Union College, 1987.
- James Dwight Cole, of Decatur, IL; B.S., University of Illinois, 1982.
- Philip Arthur Cole, of Ridgewood, NJ; B.S., Yale University, 1984.
- Sarah Streett Cornyn, of Baltimore, MD; B.A., Sarah Lawrence College, 1987.
- Susan Dona Cummings, of Owings Mills, MD; B.S., Duke University, 1981.
- Lawrence Jay Davis, of Bethesda, MD; A.B., Harvard College, 1985.
- Laurie J. Antonik del Hierro, of Wilmington, DE; B.A., Wellesley College, 1986.
- Tamara Lea Doering, of Lutherville, MD; B.A., Johns Hopkins University, 1983.
- Kathy Sue Durham, of Napoleon, OH; B.S., University of Miami, 1986.
- Timothy Scott Eckel, of Reading, PA; B.S., Pennsylvania State University, 1986; M.S., 1990.
- Martin Gary Edwards, of New Fairfield, CT; B.S., Brown University, 1987.
- Joseph Dominic Femino, of Pasadena, CA; B.S., Yale University, 1987.
- Anne Crowe Fischer, of Chapel Hill, NC; B.A., University of North Carolina (Chapel Hill), 1983.
- Avrim Brett Fishkind, of Adelphi, MD; B.S., University of Maryland (College Park), 1986.
- Kathryn Marian Frantz, of State College, PA; B.A., Pennsylvania State University, 1986.
- Natalie Wayne Geary, of New York, NY; B.A., Harvard College, 1985.
- Maura Lianne Gillison, of Waite Hill Village, OH; B.S., Duke University, 1987.
- Andrea Marie Girman-Ratan, of Avoca, PA; B.S., University of Scranton, 1985.

- Wendy Jessica Hawkins, of Austin, TX; B.A., University of Texas (Austin), 1987.
- Stephen Robert Hays, of Syracuse, NY; B.S., M.S., Yale University, 1987.
- Stephen Leif Helgemo, Jr., of Fort Myers, FL; B.S., Florida State University, 1986.
- Tony Wei-hsiu Ho, of Anaheim, CA; B.S., University of California (Los Angeles), 1987.
- Vivian Ying Hou, of Glendale, CA; B.A., University of California (Berkeley), 1987.
- Allen Hsieh, of Edison, NJ; B.A., Columbia University, 1987.
- I-Chow Joe Hsu, of Tallahassee, FL; B.S., University of Florida, 1987.
- Edward Paul Junkins, Jr., of Coralville, IA; B.A., University of Notre Dame, 1987.
- David Mark Kalainov, of Des Moines, IA; B.A., Stanford University, 1986.
- John Michael Kane III, of Pittsburgh, PA; B.S., Allegheny College, 1987.
- Joel Thorp Katz, of Glencoe, IL; B.A., Earlham College, 1981; M.A., Johns Hopkins University, 1986.
- Cecilia Mary King, of Holmdel, NJ; B.A., Johns Hopkins University, 1987.
- Paul Michel Kirshbom, of Metairie, LA; B.A., Johns Hopkins University, 1987.
- Leonidas George Koniaris, of Brookline, MA; B.S., University of Massachusetts (Amherst), 1986.
- Mark Solon Krasnoff, of St. Louis, MO; B.A., Amherst College, 1987.
- Rachelle Marie LaForce, of Syracuse, NY; B.A., Johns Hopkins University, 1987.
- William Harras Landschulz, of Dubuque, IA; B.A., M.S., University of Chicago, 1982.
- Robert Louis Lapidus, of Fort Lee, NJ; B.A., Clark University, 1987.
- Todd Michael Lasner, of Greenburg, PA; B.S., Duke University, 1987.
- John Raymond Leahy, of Holmdel, NJ; B.A., University of Virginia, 1986.
- Keith Eustace Loring, of Fruita, CO; B.A., University of Colorado (Boulder), 1986.
- Thomas George Lundquist, of Upper Montclair, NJ; B.S., Pennsylvania State University, 1987.
- Mary Robertazzi Mailloux, of Pembroke Pines, FL; A.A., Broward Community College, 1985; B.A., University of Miami, 1987.
- William John Marks, Jr., of Milwaukee, WI; Honors B.S., Marquette University, 1987.
- Zacharias Vasilios Mavrophilippos, of Baltimore, MD; B.A., M.A., Johns Hopkins University, 1987.
- Richard John McCarthy, of Warrenton, VA; B.A., University of Virginia, 1987.
- Pearline Veronica McKenzie, of Brooklyn, NY; B.S., United States Military Academy, 1987.
- Jennifer Bupp Meko, of Wyndmoor, PA; A.B., Princeton University, 1987.
- Ayesa Nazneen Mian, of Wilmington, DE; B.S., Johns Hopkins University, 1987.
- Thomas Andrew Minor, of Rochester, NY; B.S., Syracuse University, 1987.
- Crystal Arenal Mullen, of Annapolis, MD; B.A., Johns Hopkins University, 1987.
- Fletcher Mark Munter, of Rockville, MD; B.S., United States Military Academy, 1987.
- Neal Jamison Naff, of Boones Mill, VA; B.S., Virginia Military Institute, 1987.
- Daniel Joseph Nigrin, of Staten Island, NY; B.A., Johns Hopkins University, 1987.
- James Caldwell Oates, of Nashville, TN; B.S., Bates College, 1986.
- Jane Anoush Oski, of Baltimore, MD; B.A., Middlebury College, 1982.
- Paula Yvette Paradis, of North Smithfield, RI; B.S., Duke University, 1986.
- Gail Denise Pearson, of Columbia, MD; A.B., University of Michigan (Ann Arbor), 1973; M.P.A., American University, 1978; Sc.D., Johns Hopkins University, 1990.
- Melissa Sue Pessin, of Fairview, PA; B.S.E., Princeton University, 1984.
- Dante Joseph Pieramici, of Hudson, OH; B.A., Northwestern University, 1987.
- Nina Pierpont, of Darien, CT; B.A., Yale University, 1977; M.A., Ph.D., Princeton University, 1981; 1986.
- Peter John Pronovost, of Waterbury, CT; B.S., Fairfield University, 1987.
- Thomas Christopher Randall, of Sparks, MD; B.A., Bowdoin College, 1985.
- Carol Ann Rauch, of Cherry Hill, NJ; A.B., Dartmouth College, 1982.
- Charles Haskell Redfern, of La Jolla, CA; B.A., University of California (Berkeley), 1985.

- Thomas Kevin Reid, of Norman, OK; B.S., Oklahoma State University, 1987.
- Daniel Scott Reuland, of Cincinnati, OH; B.A., University of Michigan (Ann Arbor), 1986.
- Adrienne Laura Richards, of Morristown, NJ; B.A., Drew University, 1986.
- Joy V. Roberts, of Rockville, MD; B.A., Andrews University, 1987.
- Andrew Leon Rosenberg, of Huntington Wood, MI; B.S., University of Michigan (Ann Arbor), 1986.
- Nathan Jeffrey Rudin, of Stoughton, MA; B.A., M.A., Boston University, 1986; 1987.
- Diana Fertsch Ruggio, of Baltimore, MD; B.A., University of Maryland (Baltimore County), 1982; Ph.D., Uniformed Services University of the Health Sciences, 1989.
- Jeanne Marie Santoli, of Dunwoody, GA; B.A., Princeton University, 1987.
- Joseph Stephen Schoeniger, of Cridersville, OH; B.S., M.S., Yale University, 1983.
- Joseph M. Schwartz, of Great Neck, NY; B.A., Johns Hopkins University, 1987.
- Margot Anne Schwartz, of Chappaqua, NY; B.A., Wesleyan University, 1985.
- Deborah Elaine Sellmeyer, of St. Louis, MO; B.A., Central Methodist College, 1987.
- Helen Nwanganga Shields, of Bethesda, MD; B.A., Brown University, 1987.
- Masako Shimamura, of Piscataway, NJ; A.B., Cornell University, 1987.
- Robert Steven Sikorski, of Nanticoke, PA; B.S., Pennsylvania State University, 1984.
- Mark Alan Silberman, of Leesburg, VA; B.S., Virginia Polytechnic Institute and State University, 1987.
- Rajesh Singal, of Lititz, PA; B.A., University of Pennsylvania, 1987.
- Edward William Skorpinski, of Huntingdon Valley, PA; B.A., LaSalle University, 1987.
- Brian Anthony Smith, of Poway, CA; B.S., University of Arizona, 1986.
- Ahmed Mohamed Soliman, of Floral Park, NY; B.A., Queens College, 1987.
- Douglas James Spegman, of Carrboro, NC; A.B., Colgate University, 1979; M.S.P.H., University of North Carolina (Chapel Hill), 1985.
- Alan Gordon Stein, of Madison, WI; B.S., University of Wisconsin (Madison), 1986.
- Doris Adelheid Stoffers, of Bayside, NY; B.A., Johns Hopkins University, 1984.
- Karen Lee Swartz, of Cranbury, NJ; B.A., Princeton University, 1987.
- Jorge Alberto Tavel, of Tucker, GA; B.S., Emory University, 1987.
- Roxanne Claire Thompson, of Baltimore, MD; B.A., Yale University, 1986.
- Ajay Verma, of Bethesda, MD; B.S., University of Maryland (College Park), 1984.
- Janice Elizabeth Wallace, of Detroit, MI; B.A., Cornell University, 1985.
- Beth Anne Rose Wallen, of Short Hills, NJ; B.A., Johns Hopkins University, 1986; M.P.H., 1987.
- Kristin Lynn Weber, of St. Louis, MO; B.S., University of Missouri, 1987.
- William Roy Welder, of Greenville, WV; B.S., University of North Carolina (Greensboro), 1986; M.P.H., Johns Hopkins University, 1990.
- James Frederick Wenz, of Somerville, NJ; B.S., Rensselaer Polytechnic Institute, 1987.
- Karl Arthur Wolff IV, of Newport Beach, CA; B.S., University of California (Los Angeles), 1987.
- Belinda Yun-Mae Yim, of Ambler, PA; B.A., Cornell University, 1987.
- Leslie Tatsuya Yonemoto, of Sunnyvale, CA; B.S., University of California (Berkeley), 1979; M.B.A., Arizona State University, 1984.
- Richard Cedric Zellars, of West Orange, NJ; A.B., Bowdoin College, 1986.



## Doctors of Philosophy in The School of Medicine

- Alessandro Alessandrini, of Yonkers, NY; A.B., Harvard College, 1983. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Coordination of Immunoglobulin DJ<sub>H</sub> Transcription and D-to-J<sub>H</sub> Rearrangement by Promoter-Enhancer Approximation<sup>H</sup> in the Ha-ras Transformed Lymphoid Progenitor Cell Line, HIAFT-1.*
- Linda Mary Arterburn, of Ellicott City, MD; B.S., University of Wisconsin (Madison), 1984. Pharmacology and Molecular Sciences. *The Structure and Trafficking of Lysosomal Membrane Glycoprotein I.*
- Lesa Jean Beamer, of Uniontown, OH; B.S., Kent State University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Protein-DNA Recognition at High Resolution: Refined Structure of the Lambda Repressor-Operator Complex.*
- Linzhaio Cheng, of Baltimore, MD; B.S., University of Science and Technology of China, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Stimulation of the Replication of SV40 Minichromosomes by Transcriptional Activators: In Vivo and In Vitro Studies.*
- Philip Arthur Cole, of Ridgewood, NJ; B.S., Yale University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. *A Chemical Portrait of and Inhibitor Development for Cytochrome P-450 Aromatase.*
- Tamara Lea Doering, of Lutherville, MD; B.A., Johns Hopkins University, 1983. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Glycosyl Phosphatidylinositol Protein Anchors of African Trypanosomes: Biosynthesis and Implications for Chemotherapy.*
- Anne Crowe Fischer, of Baltimore, MD; B.A., University of North Carolina (Chapel Hill), 1983. Molecular Biology and Genetics—Program in Immunology. *The Immunobiology of Syngeneic Graft-Versus-Host Disease.*
- Harry R. Goldberg, of Baltimore, MD; B.A., Franklin and Marshall College, 1978; M.S., Johns Hopkins University, 1983. Biophysics-Molecular Biophysics Program. *Site Specific Recognition by DNA Binding Proteins: Analysis and Design of  $\lambda$ Repressor-Operator Contacts.*
- Eileen Bernadette Haase, of Silver Spring, MD; B.S., Virginia Polytechnic Institute and State University, 1983; M.S., Johns Hopkins University, 1985. Biomedical Engineering. *The Role of the Microcirculation in Total Body Capacitance Changes During Activation of the Baroreceptor Reflex System.*
- Amy Beth Hahn, of BelAir, MD; B.S., Carnegie-Mellon University, 1985. Molecular Biology and Genetics—Program in Immunology. *The Murine Class I Qa-2 Molecule and T Lymphocyte Activation.*
- Sandra L. Holloway-Gerring, of Groningen, The Netherlands; B.S., Virginia Polytechnic Institute and State University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Role of CHL1 in Chromosome Transmission Fidelity and Cell Cycle Progression in Saccharomyces cerevisiae.*
- Steven Shih-ting Hsiao, of Baltimore, MD; B.S.E., Duke University, 1976; M.S., 1978. Biomedical Engineering. *The Representation and Transformation of Scanned Embossed Letters in the Monkey Somatosensory System.*
- William Harras Landschulz, of Dubuque, IA; B.A., M.S., University of Chicago, 1982. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Characterization of a Rat Liver Transcriptional Activator, C/EBP; Recognition of a New DNA Binding Motif, the Leucine Zipper.*
- Edward B. Lankford, of Pocomoke City, MD; B.S., Virginia Polytechnic Institute and State University, 1980; M.D., University of Maryland, 1984. Biomedical Engineering. *The Effects of Right Heart Loading on Left Ventricular Performance of in situ Ejecting Hearts.*
- June Li, of Baltimore, MD; B.S., National University of Defense Technology, 1982; M.S., Old Dominion University, 1985. Biomedical Engineering. *Estimation of the Recovery of Discharge Probability in Cat Auditory Nerve Fibers and Computer Simulations.*
- Min Li, of Wuhan, China; B.S., Wuhan University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Purification and Characterization of NBP, a Protein that Specifically Binds an Enhancer of Immunoglobulin Gene Rearrangement.*
- Kan Liao, of Baltimore, MD; B.S., University of Science and Technology of China, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Phosphotyrosyl Turnover in Insulin Signaling: Characterization of Two Membrane-Bound pp15 Protein Tyrosine Phosphatases from 3T3-L1 Adipocytes\*.*
- Anne Elizabeth Luebke, of Miami, FL; B.A., B.S., Oklahoma State University, 1984. Biomedical Engineering. *The Dependence of the Plasticity of the Vestibulo-ocular Reflex on Climbing-fiber Activity.*
- Chalapathy V. Neti, of Boca Raton, FL; M.S. Washington State University, 1983. Biomedical Engineering. *Neural Network Models of Sound Localization Based on Directional Filtering of the Pinna.*
- William James Pavan, of Yorktown Heights, NY; B.S., University of Massachusetts/Amherst, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Physiology. *Strategies for the Isolation and Analysis of Disease Loci Using Yeast Artificial Chromosomes.*

- Nikola P. Pavletich, of Athens, Greece; B.S., California Institute of Technology, 1988. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Crystal Structure of a Zinc Finger/DNA Complex at 2.1° Resolution: A Framework for Understanding How Zinc Fingers Recognize DNA.*
- Melissa Sue Pessin, of Fairview, PA; B.S.E., Princeton University, 1984. Neuroscience. *Diglyceride Molecular Species and Sources in Signal Transduction.*
- Marie Catherine Pizzorno, of LaMirada, CA; B.A., Whittier College, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. *Regulation of Gene Expression by the Immediate-Early Gene Products of Human Cytomegalovirus.*
- Carol Ann Rauch, of Cherry Hill, NJ; B.A., Dartmouth College, 1982. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *The Topology of Kinetoplast DNA Networks.*
- Carol A. Renfrew, of Coatesville, PA; B.S., University of Delaware, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Cell Biology and Anatomy. *The Degradation of Epidermal Growth Factor and its Receptor by the Isolated Perfused Rat Liver.*
- Ruth Norine Russo, of Walla Walla, WA; B.S., Gonzaga University, 1985. Pharmacology and Molecular Sciences. *Two Forms of B1-4-Galactosyltransferase: Analysis of Membrane Orientation and Golgi Retention.*
- Jane Eliot Sewell, of Baltimore, MD; B.Sc., University College-London, 1982; M.A., Johns Hopkins University, 1985. History of Medicine. *Bountiful Bodies: Spencer Wells, Lawson Tail, and the Birth of British Gynaecology.*
- Robert Steven Sikorski, of Nanticoke, PA; B.S., Pennsylvania State University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Molecular Genetics of the TPR Gene Family.*
- Barbara Stauch Slusher, of Baltimore, MD; B.S., Dickinson College, 1986. Pharmacology and Molecular Sciences. *Purification, Antibody Production, and Immunocytochemical Localization of Rat Brain N-Acetylated Alpha-Linked Acidic Dipeptidase (NAALADase).*
- Doris Adelheid Stoffers, of Bayside, NY; B.A., Johns Hopkins University, 1984. Neuroscience. *Structure and Regulation of the Gene Encoding Peptidylglycine alpha-Amidating Monooxygenase.*
- Huan Tian, of Greenville, NC; B.S., Wuhan University, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Molecular and Biochemical Studies of the Murine Non-Classical Class I MHC Molecule Qa-2.*
- Guochuan E. Tsai, of Hsinchu, Taiwan; M.B., National Yang-Ming Medical College, 1984. Neuroscience. *Anatomy, Physiology, and Pathophysiology of N-Acetylaspartylglutamate.*
- Yeou-Ping Tsao, of Taipei, Taiwan, Republic of China; B.M., National Defense Medical Center, 1983. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *DNA Damage Responses in Mammalian Cells.*
- Carol Virginia Ward, of Hinsdale, IL; B.S., University of Michigan, Ann Arbor, 1986. Cell Biology and Anatomy. *The Functional Anatomy of the Lower Back and Pelvis of the miocene Hominoid Proconsul Nyanzae from Mfangano Island, Kenya.*
- Ora Weisz, of Baltimore, MD; B.S., Yale College, 1984. Biochemistry, Cellular and Molecular Biology Training Program—Pharmacology and Molecular Sciences. *Carbohydrate-Mediated Hepatocyte Adhesion: Rat Hepatic Lectin Topography and Cytoskeletal Associations.*
- John Andrew White, of Monroe, LA; B.S., Louisiana Tech University, 1984. Biomedical Engineering. *Electrotonic Models of Stellate Cells of the Ventral Cochlear Nucleus.*
- Elizabeth J. Wolffe, of Columbia, MD; B.Sc., University of Birmingham (England), 1980; M.Sc., Chelsea College, University of London, 1984. Pharmacology and Molecular Sciences. *Biochemical and Structural Studies of Pgp-1(CD44): A Novel Adhesion Molecule with Properties of a Hyaluronic Acid-Binding Proteoglycan.*
- Hui Zhang, of Hangzhou, Zhejiang Province, China; B.S., Peking University, 1982. Biochemistry, Cellular and Molecular Biology Training Program—Biological Chemistry. *Studies of DNA Conformation Dynamics in Eukaryotic Cells.*
- Jie Zhang, of Shanghai, The People's Republic of China; B.S., Fudan University, 1985. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics. *Phosphorylation of the Carboxyl-terminal Domain of the RNA Polymerase II Largest Subunit.*



## *Doctors of Philosophy in The G.W.C. Whiting School of Engineering*

- Martin Jay Appel, of Milwaukee, Wis.; B.S. University of Wisconsin-Milwaukee, 1985; M.S.E. The Johns Hopkins University, 1987. Mathematical Sciences. *AB Percolation*.
- Dorota Monika Artynowicz, of Warsaw, Poland. Materials Science and Engineering. *Structural and Magnetic Behavior of Melt-Spun  $\text{PrFe}_2$  Alloys*.
- Ilse Ilene Blumentals, of Santa Fe, Caracas, Venezuela; Licentiate in Biology, Simon Bolivar University, 1984. Chemical Engineering. *Characterization of Growth Physiology, Cell-Sulfur Interaction and SDS-Resistant Proteolytic Activity in the Hyperthermophilic Archaeobacterium Pyrococcus furiosus*.
- Leonidas Boutsikaris, of Athens, Greece; Diploma, National and Kapodistrian University of Athens, Greece, 1981; M.S. University of Michigan-Ann Arbor, 1982; M.S.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering. *Homodyne Detection using Photorefractive Materials as Beam Splitters*.
- Kathleen Ruth Breen, of Baltimore, Md.; B.S. University of Rochester, 1976; M.S.E. The Johns Hopkins University, 1985. Materials Science and Engineering. *Interfacial Dislocation Structures in  $\text{In}_x\text{Ga}_{1-x}\text{As/GaAs}$  Mismatched Epitaxy*.
- Ingrid Karin Busch, of Baltimore, Md.; M.S.E. The Johns Hopkins University, 1988. Mathematical Sciences. *Vehicle Routing on Acyclic Networks*.
- Harold Edward Conn, of Columbia, Md.; B.A. Western Maryland College, 1971; M.S. The Johns Hopkins University, 1976. Computer Science. *Some Polygon Decomposition Problems*.
- John Broddus Deaton, Jr., of Manakin, Va.; B.E.S. The Johns Hopkins University, 1983; M.S.E., 1986. Materials Science and Engineering. *A Long-Cavity Mode-Locked Laser for Noncontact Generation of Narrowband Ultrasound*.
- Matthew Galen Diaz, of Dallas, Texas; B.E.S. The Johns Hopkins University, 1982; M.S.E., 1982. Computer Science. *Algorithms for Balanced Partitioning Polygons and Point Sets*.
- Ronald Anthony Dombro, Jr., of Calumet City, Ill.; B.S. University of Illinois, 1982. Chemical Engineering. *Electrochemistry in Supercritical Organic Mixtures*.
- Ramani Duraiswami, of Bombay, India. Mechanical Engineering. *I. Effective equations for sound propagation in fogs. II. Orthogonal mapping in two dimensions*.
- Judith Ann Giannini, of Laurel, Md.; B.S. Drexel Institute of Technology, 1971; M.S., 1976. Electrical and Computer Engineering. *The Propagation of Bright and Dark Spatial and Temporal Solitons in Nonlinear Optical Materials*.
- Stephen Lee Golledge, of Wichita, Kan.; B.S. Wichita State University, 1982. Materials Science and Engineering. *Effect of Oxide Film Properties on the Corrosion Behavior of  $\text{SiC/Al}$  Composites*.
- Ruth Ellen Herzog, of Plantation, Fla.; B.A. Bryn Mawr College, 1984. Chemical Engineering. *Inhibiting Calcium Carbonate Scale Formation*.
- David Earl Hess, of Baltimore, Md.; B.S. Loyola College, 1982. Mechanical Engineering. *An Experimental Investigation of a Compliant Surface Beneath a Turbulent Boundary Layer*.
- Murad Hizlan, of Istanbul, Turkey; B.S. Bogazici University, 1985; M.S.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering. *Optimal Random Modulation for Robust Communication*.
- Ronald Alan Holser, of Sarasota, Fla.; B.S. University of Maryland, 1980; M.S., 1982. Chemical Engineering. *Modeling of Cathodic Protection Systems by the Finite Element Method*.
- Jie Huang, of Fuzhou, Peoples Republic of China; M.A. East China Institute of Technology, 1982; M.S.E. The Johns Hopkins University, 1990. Electrical and Computer Engineering. *On the Servomechanism and Noninteracting Control Problems for Nonlinear Systems*.
- Sivakolunthunathan Kesavanathan, of Chulipuram, Sri Lanka; B.S. University of Peradeniya, Sri Lanka, 1981; M.S.E. The Johns Hopkins University, 1987. Civil Engineering. *Radiation Boundary for Dynamic Soil-Structure Interaction Analysis in Time Domain*.
- Xuan Kong, of Chengdu, Peoples Republic of China, Va.; B.S. Sichuan University, 1984; M.S.E. The Johns Hopkins University, 1989. Electrical and Computer Engineering. *Averaging Analysis of Adaptive Algorithms*.
- Alan Jed Kosansky, of Penn Wynne, Pa.; B.S. Rutgers University, 1985; M.S.E. The Johns Hopkins University, 1988. Mathematical Sciences. *Preparation Cost Structures in Inspection Games*.
- Adriano Maria Lezzi, of Milan, Italy; Laurea, Universita Degli Studi di Milano, 1985. Mechanical Engineering. *Topics in Free-Surface Flows*.
- Xuyong Liu, of Sichuan, Peoples Republic of China; B.S. Sichuan University, 1984; M.S.E. University of Michigan, 1986. Electrical and Computer Engineering. *Trap vs. Absorber Model for Semiconductor Laser Dynamics*.
- Nan Qian Lu, of New York, N.Y.; M.S.E. The Johns Hopkins University, 1986. Mechanical Engineering. *Bubble Clouds as Sources and Scatterers of Underwater Sound*.
- Ning Lu, of Fuzhou, Fujian, Peoples Republic of China; B.S. Wuhan Institute of Building Materials, 1982; M.S., 1984; M.S.E. The Johns Hopkins University, 1988. Civil Engineering. *Numerical Study of the Electrical Double-Layer Repulsion Between Nonparallel Clay Particles of Finite Length*.
- Gregory Leo Makar, of Ellicott City, Md.; B.S. Virginia Polytechnic Institute and State University, 1985; M.S.E. The Johns Hopkins University, 1988. Materials Science and Engineering. *Stress Corrosion Cracking of Rapidly Solidified Magnesium-Aluminum Alloys*.



- Jennifer Mary O'Connor, of Croton-on-Hudson, N.Y.; B.S. The Johns Hopkins University, 1984; M.S.E., 1986. Civil Engineering. *Analysis of Site-dependent Effects on the Nonlinear Response of Structural Systems subjected to Seismic Loading.*
- Aleksandra Dimitrijevic Pavasovic, of Belgrade, Yugoslavia; M.S.E. The Johns Hopkins University, 1989. Electrical and Computer Engineering. *Subthreshold Region in MOSFET Mismatch Analysis and Modeling for Analog VLSI Systems.*
- Erica Ray Petersen, of Ellicott City, Md.; B.S. College of William and Mary, 1980; M.A. The Johns Hopkins University, 1982. Materials Science and Engineering. *Electromagnetic Attenuation by Solid Particle Aerosols.*
- Narayan Rangaraj, of Bombay, India; B.Tech. Indian Institute of Technology, 1986. Mathematical Sciences. *Nonsmooth Optimization: Algorithms and Applications.*
- David Victor Rosowsky, of Needham, Mass.; B.S. Tufts University, 1985; M.S., 1987. Civil Engineering. *Stochastic Damage Accumulation and Probabilistic Codified Design for Wood.*
- Dan Schonfeld, of Northridge, Calif.; M.S.E. The Johns Hopkins University, 1988. Electrical and Computer Engineering. *Optimal Morphological Representation and Restoration of Binary Images: Theory and Applications.*
- Xuning Shan, of Beijing, Peoples Republic of China; B.Eng. Daqing Petroleum Institute, 1982. Chemical Engineering. *Electrochemical Impedance Spectroscopy of the Zinc/KOH System.*
- Harry Wroth Shenton III, of Phoenix, Md.; B.C.E. University of Delaware, 1982; M.C.E., 1984. Civil Engineering. *Response of Rigid Bodies to Base Excitation.*
- Jhih-Shyang Shih, of Panchiao, Taiwan, Republic of China; B.S. National Cheng Kung University, 1981; M.S., 1983. Geography and Environmental Engineering. *Water Supply Operations During Drought.*
- James Brian Spicer, of Columbia, Md.; B.S. Southern Methodist University, 1985. Materials Science and Engineering. *Laser Ultrasonics in Finite Structures: Comprehensive Modelling with Supporting Experiment.*
- Steven Jay Steinsaltz, of Coral Springs, Fla.; B.S. The Johns Hopkins University, 1985; M.A., 1985. Mathematical Sciences. *Sequencing Jobs for a Machine Subject to Wear-down.*
- Grover Arthur Swartzlander, Jr., of Toledo, Ohio. Electrical and Computer Engineering. *Observations of Continuous-Wave Self-Deflection and Spatial Dark Solitary Waves in Nonlinear Media.*
- Erik Achille Swyngedouw, of Leuven, Belgium. Geography and Environmental Engineering. *The Production of New Spaces.*
- Tony George Thomas, of Bangalore, India; M.S.E. The Johns Hopkins University, 1989. Electrical and Computer Engineering. *Random Modulation for Arbitrarily Varying Channels.*
- Ann Natalie Trenk, of New York, N.Y.; B.A. Harvard University, 1985. Mathematical Sciences. *Generalized Perfect Graphs.*
- Zhiping Wang, of Hunan, Peoples Republic of China; B.S.E. Beijing Institute of Aeronautics and Astronautics, 1982; M.S. Columbia University, 1984. Mathematical Sciences. *Continuation Methods for Solving the Variational Inequality and Complementarity Problems.*
- Tsunemi Watanabe, of Sapporo, Japan; B.A. Hokkaido University, 1983; M.S.E. The Johns Hopkins University, 1986. Geography and Environmental Engineering. *New Stochastic Programming Models for Environmental Decision Making Under Uncertainty.*
- James Joseph Zimmerman, of Houston, Texas; B.S. Texas A & M University, 1980; M.S. Rice University, 1983. Civil Engineering. *Analysis of Structural System Reliability with Stochastic Programming.*

## *Doctors of Philosophy in The School of Arts and Sciences*

- Margaret Kate Aisenberg, of Boston, Mass.; M.A. The Johns Hopkins University, 1986. English. *The Exploded Image: Ekphrasis in the Poetry and Prose of William Wordsworth, W. H. Auden, and Philip Larkin.*
- Syed Farid Alatas, of Kuala Lumpur, Malaysia; B.S. University of Oregon, 1983; M.A. The Johns Hopkins University, 1988. Sociology. *The rise of democratic and authoritarian post-colonial states: the case of Indonesia and Malaysia.*
- Robin Stacey Avner, of Pittsburgh, Pa.; B.A. Amherst College, 1982. Humanities. *Literature as Leaven: George Eliot on Fiction, Figurative Language, and Culture.*
- Suzanne Jean Baker, of Worthington, Ohio; B.A. Miami University, 1986. Biology. *Identification of p53 Gene as a Tumor Suppressor Gene in Colorectal Carcinoma.*
- Kalpna Balakrishnan, of New Delhi, India; B.S. All India Institute of Medical Sciences, 1983. Biophysics. *Sulphydryl Reagents Regulate and Modulate the Light/GMP-Dependent Cation Channel of Bovine Rod Photoreceptors.*
- Jillian Fiona Banfield, of Enmore, Australia; B.S. Australian National University, 1982; M.A. The Johns Hopkins University, 1989. Earth and Planetary Sciences. *HREM studies of subsolidus alteration, weathering, and subsequent diagenetic and low grade metamorphic reactions.*
- Rebecca Belle Bateman, of Joplin, Mo.; B.A. University of Oklahoma, 1978; M.A., 1980; M.A. The Johns Hopkins University, 1989. Anthropology. *We're Still Here: History, Kinship, and Group Identity Among the Seminole Freedmen of Oklahoma.*
- Andreas Demetrios Baxevanis, of Baldwin, N.Y.; B.S. Cornell University, 1984. Biology. *A Physicochemical Characterization of the Core Histone Octamer and its Subunits.*
- Rebecca Lynn Bernat, of Baltimore, Md.; B.S. Portland State University, 1982. Biology. *The Human Centromere Proteins CENPs A, B, and C: An in vivo Analysis of Centromere Structure and Function.*
- Susan Zeldes Bernstein, of Providence, R.I.; M.A. University of California-Berkeley, 1983. Humanities. *Virtuosity of the Nineteenth-Century: Music and Language in Heine, Liszt and Baudelaire.*
- Richard Francis Braaten, of Starkville, Miss.; B.A. Duke University, 1982; M.A. The Johns Hopkins University, 1988. Psychology. *Auditory Perceptual Organization by a Songbird, the European Starling (Sturnus Vulgaris).*
- Maurice Joseph Bric, of Cahirciveen, Ireland; B.A. University College, Cork, Ireland, 1974; M.A. The Johns Hopkins University, 1979. History. *Ireland, Irishmen and the Broadening of the Late Eighteenth-Century Philadelphia Polity.*
- Lawrence C. Brody, of Havertown, Pa.; B.S. Pennsylvania State University, 1982. Biology. *Functional Consequences of Mutations at the Ornithine-delta-Aminotransferase Locus.*
- Rebecca Williams Carmody, of Trenton, N.J.; B.S. University of Connecticut, 1984; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences. *The slaufrudalur Stock of Southeast Iceland: Geology, Geochemistry and Petrogenesis.*
- Kun-Ming Chen, of Taipei, Taiwan, Republic of China; B.A. National Taiwan University, 1975; M.A., 1980; M.A. The Johns Hopkins University, 1987. Economics. *The Determinants of Mergers: A Comparative Study of Postwar Merger Activity in Japan and the United States.*
- Roger Duane Congdon, of Vancouver, Wash.; A.S. Mt. Hood Community College, 1980; B.S. Portland State University, 1983. Earth and Planetary Sciences. *Solidification of the Shonkin Sag Laccolith: Mineralogy, Petrology, and Experimental Phase Equilibria.*
- Thomas Ernest Abell Dale, of London, Ontario, Canada; B.A. University of Toronto, 1984; M.A. The Johns Hopkins University, 1985. History of Art. *The Crypt of the Basilica Patriarcale at Aquileia: Its Place in the Art and History of the Upper Adriatic.*
- Stacie Ann Dalrymple, of Palo Alto, Calif.; B.A. Occidental College, 1986. Biology. *BK virus T antigens induce kidney carcinomas and thymoproliferative disorders in transgenic mice.*
- Carolyn Jeanne Decker, of Phoenix, Ariz.; B.A. Colorado College, 1982. Biology. *RNA Editing: Characterization of Partially Edited RNAs and Initial Recognition of Editing Domains.*
- Joan Patterson Del Pozzo, of Piermont, N.H.; M.A. Middlebury College, 1972; M.A. The Johns Hopkins University, 1989. Hispanic and Italian Studies. *Speaking in Imagery, Speaking in Ecstasy: A Discussion of Saint Catherine of Siena's Language and Style.*
- Michael Aaron Dennis, of Silver Spring, Md.; B.A. University of Pennsylvania, 1982. History of Science. *A Change of State: The Political Cultures of Technical Practice at the MIT Instrumentation Laboratory and The Johns Hopkins University Applied Physics Laboratory, 1930-1945.*
- Bill Michael Donovan, of Odessa, Texas; B.A. University of Texas at Austin, 1975; M.A. The Johns Hopkins University, 1981. History. *Commercial Enterprise and Luso-Brazilian Society during the Brazilian Gold Rush: the Mercantile House of Francisco Pinheiro and the Lisbon to Brazil Trade, 1695-1750.*
- David Charles Drewer, of Dundalk, Md.; B.A. The Johns Hopkins University, 1983; M.A., 1985. Physics and Astronomy. *Measurement of the Michel Parameter for Leptonic Tau Decay.*



- Gloria Eisenstadt, of Philadelphia, Pa.; B.A. Temple University, 1979; M.A., 1982. Earth and Planetary Sciences. *Structural Evaluation of the Innuitian Fold and Thrust Belt, Central Ellesmere and Axel Heiberg Islands, Arctic Canada.*
- John Frederic Engelhardt, of Hockessin, Del.; B.S. Iowa State University, 1985. Biology. *Transcriptional Regulation of the Ornithine Aminotransferase Gene: Evidence for Specific Cis and Transacting Factors for Urea Cycle Related Genes.*
- Andrea Erdas, of Cagliari, Italy; Laurea, University of Cagliari, 1983; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Magnetic Field Effects on Lagrangians and Neutrino Self-Energies in the Salam-Weinberg Theory in Arbitrary Gauges.*
- Charles Christopher Euchner, of Worcester, Mass.; M.A. The Johns Hopkins University, 1988. Political Science. *The Sports of Urban Politics: Cities and Professional Franchise Location in the 1980's.*
- Ian Christopher Fletcher, of Newark, Del.; B.A. Harvard University, 1979; M.A. The Johns Hopkins University, 1984. History. *Liberalism and the Rule of Law: Protest Movements, Public Order, and the Liberal Government, 1905-14.*
- Marcie Andrea Frank, of Hampstead, Quebec, Canada; M.A. The Johns Hopkins University, 1986. English. *The Critical Stage: The Essays of John Dryden, 1660-1685.*
- Julie Anna Fulcher, of Morehead City, N.C.; B.S. Pennsylvania State University, 1987; M.A. The Johns Hopkins University, 1989. Psychology. *Modeling Romantic Jealousy: From Description to Causal Analysis.*
- Masaaki Furusawa, of Tokyo, Japan; B.S. University of Tokyo, 1981; M.S. Tokyo Institute of Technology, 1983. Mathematics. *On Fourier coefficients of Eisenstein series on  $GO(5,2)$ .*
- Eric Graham Garberson, of Edmonds, Wash.; B.A. Pomona College, 1983; M.A. The Johns Hopkins University, 1984. History of Art. *Places for Books: Monastic Libraries of the Seventeenth and Eighteenth Centuries in South Germany.*
- Bryant Anthony Gilbert, of Boston, Mass. Chemistry. *Total Synthesis of a Prostaglandin  $I_2$  Analog and New Silicon-Directed Organic Reactions.*
- Dennis A. Gilbert, of Frederick, Md.; B.A. University of California-San Diego, 1983. Biology. *Application of DNA Fingerprinting to Measure the Genetic Structure of Populations.*
- Marc Joseph Gotlieb, of Toronto, Ontario, Canada; B.A. University of Toronto, 1980; M.Phil. University of Oxford, England, 1982; M.A. The Johns Hopkins University, 1985. History of Art. *From Genre to Decoration: Studies in the Theory and Criticism of French Salon Painting.*
- Jane Louise Gray, of Sligo, Ireland; B.A. University of Dublin, 1984; M.A. The Johns Hopkins University, 1990. Sociology. *Rural Industry and Uneven Development In Ireland: Region, Class and Gender, 1780-1840.*
- Todd Lamar Graybill, of Manheim, Pa.; B.S. Juniata College, 1984; M.A. The Johns Hopkins University, 1988. Chemistry. *The Application of Silyl Triflate-Mediated Rearrangements and Cyclizations for the Preparation of Dihydro- and Tetrahydrobisfuran-Containing Intermediates in Aflatoxin Biosynthesis.*
- Lora Marie Green, of Auburn, N.Y. Chemistry. *Metal Binding Studies of a Retroviral Nucleocapsid Protein and Related Peptides.*
- Carlos Jesus Gutierrez, of San Antonio, Texas; B.S. University of Dallas, 1983; M.A. The Johns Hopkins University, 1987. Physics and Astronomy. *The Magnetic Properties of Iron-Silver and Iron-Nickel Multilayers Grown by Molecular Beam Epitaxy.*
- Alexandra Woltjer Halasz, of West Braintree, Vt.; B.A. Reed College, 1974; M.A. The Johns Hopkins University, 1984. English. *Paper Monsters: Pamphlets, Writers and Printing in England at the End of the Sixteenth Century.*
- Richard John Harknett, of Fair Lawn, N.J.; B.A. Villanova University, 1985; M.A. The Johns Hopkins University, 1989. Political Science. *Conventional Deterrents and Strategic Change.*
- Walter Sims Harley, of Peninsula, Ohio; B.A. The Johns Hopkins University, 1986; M.A., 1988. Psychology. *Associative Memory in Mental Arithmetic.*
- Brian David Harral, of Bedford, Texas; B.A. Rice University, 1985; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Measurement of the Z Boson Resonance Parameters.*
- Douglas Allan Harrison, of Clifton Springs, N.Y. Biology. *Analysis of the suppressor of Hairy wing locus, a gene encoding a putative transcription factor of Drosophila.*
- Takehiko Hashimoto, of Tokyo, Japan; B.L.A. University of Tokyo, 1980; M.S., 1982. History of Science. *Theory, Experiment and Design Practice: the Formation of Aeronautical Research, 1909-1930.*
- Albert Isteero-Farag, of Cairo, Egypt; B.D. Hartford Seminary Foundation, 1961; M.A., 1961; Th.M. Princeton University, 1978; M.A. The Johns Hopkins University, 1980. Near Eastern Studies. *Abdullah Muslim Ibn Qutayba's Biblical Quotations and their Source. An Inquiry into the Earliest Existing Arabic Bible Translations.*
- Elizabeth Anne James, of Bellevue, Wash.; B.A. Pacific Lutheran University, 1978. Biology. *Fluorescence Characterization and Energy Transfer Studies of Staphylococcal Nuclease.*
- Jeremy Alan Johnson, of Greenbush, Va.; B.A. University of Virginia, 1984. Biology. *Studies on an Intermediate Ligation Species of Human Hemoglobin Using Hybrid Kinetics and Cryoelectrostatic Focusing Methods.*
- Jan Horst Keppler, of Schöenaich, Germany; M.A. The Johns Hopkins University, 1988. Economics. *Monopolistic Competition Theory 1926-1941.*



- Hyo Suk Kim, of Philadelphia, Pa.; B.A. Princeton University, 1984. Biology. *Transcriptional Regulation of Hydrogenase Synthesis in Bradyrhizobium japonicum*.
- Amy Sarah Kimball, of San Diego, Calif. Biology. *Conformationally-Defined Holliday Structures and Flp-Mediated Recombination*.
- Richard Lynn Kramer, of Dubuque, Iowa; M.A. The Johns Hopkins University, 1987. Mathematics. *The Periodic Hopf Ring of Connective Morava KTheory*.
- Wai-Ping Lam, of Hong Kong; B.S. University of Hong Kong, 1983; M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *Neutrino Physics in the Majoron Model*.
- Katherine Tallman Landschulz, of Los Alamos, N.M. Biology. *In Vitro Maturation of Murine Erythroid Colony-Forming Units: Studies of Cell Surface Cell Cycle and Erythropoietin Action*.
- Laurie Buonanno Lanze, of Buffalo, N.Y.; B.S. State University of New York at Buffalo, 1979; M.B.A., 1982. Political Science. *Employee Ownership in the United States, the United Kingdom, and Italy: A Cross-National Comparison of Public Policy, Support Organizations and Labor Unions*.
- Michael Saul Lapp, of Santa Rosa, Calif.; B.A. University of California-Berkeley, 1980; M.A. The Johns Hopkins University, 1982. History. *Managing Migration: The Migration Division of Puerto Rico and Puerto Ricans in New York City, 1948-1968*.
- Barbara Ellen Kerr Larcom, of Baltimore, Md.; B.A. Ohio State University, 1967; M.A., 1971. Sociology. *Sex Differences in Worker Autonomy*.
- Margaret Joan Leahey, of Winooski, Vt.; B.A. Trinity College, 1962; M.A. University of Virginia, 1964. Humanities. *"To Hear with My Eyes"; The Native Languages in the Jesuit Relations*.
- Annette Irene Leduc, of Burlington, Vt.; B.A. Smith College, 1981; M.A. The Johns Hopkins University, 1983. History of Art. *Gavarni: The London Years (1847-1851)*.
- Chin-Jung Lee, of Taipei, Taiwan, Republic of China; B.A. National Taiwan University, 1974; M.A. Tamkang University, 1985. Political Science. *The Coordination of U.S. Trade Policy-Making: The Role of the United States Trade Representative (USTR)*.
- Albert Leger, of Caraquet, N.B., Canada; B.A. Harvard University, 1984; M.S. University of New Brunswick, 1987; M.A. The Johns Hopkins University, 1988. Earth & Planetary Sciences. *Regional Metamorphism of the Waits River Formation, Northeastern Vermont*.
- Suiwah Edna Leung, of New South Wales, Australia; B.A. University of New South Wales, 1969; M.A., 1977; M.A. The Johns Hopkins University, 1986. Economics. *A Portfolio Balance Model of a Managed Exchange Rate—The Australian Case*.
- Vincent Jerry Licata, of Orlando, Fla.; B.A. University of Florida, 1983. Biology. *Resolving Pathways of Functional Coupling in Human Hemoglobin Using Quantitative Low-Temperature Isoelectric Focusing of Asymmetric Mutant Hybrids*.
- Chia Jyi Liu, of Chia-I, Taiwan, Republic of China; B.S. National Taiwan University, 1984; M.A. The Johns Hopkins University, 1990. Chemistry. *Synthesis and Characterization of Complex Metal Oxides with Perovskite-Related Structures*.
- Margaret Thair Mangan, of Annandale, Va.; B.S. University of Maryland, 1980; M.S. Virginia Polytechnic Institute and State University, 1983. Earth & Planetary Science. *Crystallization and Differentiation in mafic magmas*.
- Nicholas Joseph Marini, of La Jolla, Calif.; B.S. Georgetown University, 1983. Biology. *Fate and Replication of Plasmid DNA Microinjected into Early Embryos of *Xenopus laevis**.
- John William Marshall, of London, England; B.A. Churchill College-Cambridge, 1983; M.A. The Johns Hopkins University, 1985. History. *John Locke in Context: Religion, Ethics and Politics*.
- Nicos Martys, of Canandaigua, N.Y.; B.A. State University of New York College at Geneseo, 1976; M.A., 1982; M.A. The Johns Hopkins University, 1984. Physics & Astronomy. *Critical Phenomena in Fluid Invasion of Porous Media*.
- Russell Lee McCally, of Columbia, Md.; M.S. The Johns Hopkins University, 1973; M.A., 1982. Physics & Astronomy. *Magnetism in Amorphous Iron Based Alloys: The Iron-Phosphorous and Iron-Aluminum-Boron Systems*.
- Denise Lynn Merkle, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1982; M.A. The Johns Hopkins University, 1990. Chemistry. *Metal Binding Studies of Zinc Finger Peptides*.
- Alice Mary O'Connor, of New York, N.Y.; M.A. The Johns Hopkins University, 1982. History. *From Lower Class to Underclass: The Poor in American Social Science, 1930-1970*.
- Robert Anthony Olwell, of Sussex, Wis.; B.A. University of Wisconsin-Milwaukee, 1983; M.A. The Johns Hopkins University, 1987. History. *Authority and Resistance: Social Order in a Colonial Slave Society: The South Carolina Lowcountry, 1739-1782*.
- Partha Pratim Paul, of New Delhi, India. Chemistry. *Interaction of Dioxide, Nitrogen Oxides and Other Small Molecules with Mono- and Dinuclear Copper (I) Complexes*.
- Brenda Ann Peculis, of Chicago, Ill.; B.A. Loyola University of Chicago, 1984. Biology. *Localization of the Nucleolar Protein NO38 in Amphibian Oocytes*.
- Yi-Chuan Pei, of Xian, Shanghim, Peoples Republic of China; B.S. University of Science & Technology of China, 1982; M.A. The Johns Hopkins University, 1984. Physics & Astronomy. *Search for Cosmological Dust*.

- Mark David Phillips, of Hebron, Conn. Biology. *Analysis of polycumbiotic and defective dorsal discs, Two Genes Involved in Fundamental Growth Processes of Drosophila melanogaster*.
- Iodd Douglas Pihl, of North Oaks, Minn.; B.A. St. Olaf College, 1984. Biology. *Aspects of Hydrogen Metabolism in the Hyperthermophilic Archaebacterium Pyrodictium brockii*.
- Zi-qiang Qiu, of Beijing, Peoples Republic of China; B.S. Peking University, 1984; M.A. The Johns Hopkins University, 1986. Physics & Astronomy. *Investigations of Magnetic Thin Films and High  $T_c$  Superconductivity*.
- Stephen Quirk, of Baltimore, Md.; B.S. University of Rochester, 1985. Biology. *Studies on the Escherichia coli Deoxyguanosine Triphosphate Triphosphohydrolase: from Gene to Enzyme*.
- Richard Michael Rambuss, of Buffalo, N.Y.; B.A. Amherst College, 1983; M.A. The Johns Hopkins University, 1986. English. *The Secretary's Closet: Spenser's Poetics of Secrecy*.
- Brenda Carla Rapp, of Tamarac, Fla.; B.S. University of Maryland, 1979; M.A. The Johns Hopkins University, 1987. Psychology. *Sublexical orthographic structure in reading*.
- Steven Anthony Reeves, of San Rafael, Calif.; B.S. University of California, 1985; M.A. The Johns Hopkins University, 1987. Biology. *A Molecular Approach to the Study of Astrocyte-specific gene expression in normal and neoplastic tissues*.
- Jane Anne Reiland, of Menasha, Wis.; B.S. Marquette University, 1982. Biology. *Studies of the Molecular Association of Class I MHC Antigens with Insulin Receptors in the Plasma Membrane of HLA Mutant B Lymphoblasts*.
- Karen Jane Renaud, of Long Valley, N.J.; B.S. Massachusetts Institute of Technology, 1984. Biology. *Molecular Analysis of Na,K-ATPase Subunit Assembly*.
- Seung Keun Rhee, of JoongGu Taegu, Korea; B.S. Yeungnam University, 1982. Biology. *Immunoaffinity Purification of Connexin32 and its Functional Reconstitution into Single Phospholipid Membranes*.
- Kevin Christopher Robbins, of Portland, Ore.; B.A. Reed College, 1981; M.A. The Johns Hopkins University, 1987. History. *The Families and Politics of La Rochelle, 1550-1650*.
- Elizabeth Ellen Roettger, of Chardon, Ohio; B.A. Hiram College, 1983; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Comparison of Cometary Comae Using Ultraviolet Spectroscopy: Composition and Variation*.
- Charles C. Ruthheiser, of Rockville Center, N.Y.; B.A. New College, 1983; M.A. The Johns Hopkins University, 1986. Anthropology. *Culture, Schooling and Neocolonialism in Belize*.
- Patricia Clare Ryan, of Arlington, Va.; B.A. University of Virginia, 1985; M.A. The Johns Hopkins University, 1989. Chemistry. *Characterization of the Interaction Between Escherichia coli Ribosomal Protein L11 and the 23S Ribosomal RNA GTPase Center*.
- Karen Sánchez-Eppler, of Croton-On-Hudson, N.Y.; B.A. Williams College, 1981; M.A. The Johns Hopkins University, 1985. English. *Touching Liberty: Abolition, Feminism and the Politics of the Body from the Sentimental to the Lyric*.
- Deborah Gibbs Sauder, of Fredricksburg, Va.; B.S. College of William and Mary, 1976; M.S. University of Illinois, 1979. Chemistry. *Laser Induced Fluorescence Studies of Gas-Phase Free Radical Collisional Processes*.
- Melinda Wilcox Schlitt, of Ossining, N.Y.; B.A. State University of New York, 1981; M.A. The Johns Hopkins University, 1982. History of Art. *Francesco Salviati and the Rhetoric of Style*.
- David Joseph Shide, of Laramie, N.D.; M.A. The Johns Hopkins University, 1988. Psychology. *Opioid and Nonopioid Modulation of Affect and Antinociception in Infant Rats: Influences of Gustatory and Tactile Stimulation*.
- James Sidbury of Bethesda, Md.; B.A. The Johns Hopkins University, 1980; M.A., 1987. History. *Gabriel's World: Race Relations in Richmond, Virginia, 1750-1810*.
- Pamela Helen Smith, of Bishop, Calif.; B.A. University of Wollongong-Australia, 1979. History of Science. *Alchemy, Credit and the Commerce of Words and Things: Johann Joachim Becher at the Courts of the Holy Roman Empire, 1635-82*.
- Carl Spana, of Mt. Vernon, N.Y. Biology. *Interaction of the suppressor of Hairywing protein with the gypsy transposable element*.
- Carole Jean Spangler, of Tacoma, Wash. Biology. *The Role of the Zinc Atoms and Sulfhydryl Groups in the Maintenance of the Quaternary Structure of Horse Liver Alcohol Dehydrogenase: A Fluorescence Study*.
- Philip Calhoun Speros, of Painesville, Ohio. Biology. *Molecular Switching in Human Hemoglobin: Probing Cooperativity with the Dimer-Tetramer Assembly Energetics of Cobalt (II) Hemoglobin and Cobalt (II)/Iron (II)-Carbon Monoxide Hybrid Tetramers*.
- Malina Stefanovska, of Beograd, Yugoslavia; B.A. University des Langues at Lettres-de Grenoble, France, 1973; M.A. University of Oregon, 1984; M.A. The Johns Hopkins University, 1986. French. *Le Portrait et la Cérémonie: Saint-Simon historien des "mutations funestes"*.
- Michimasa Tanabe, of Higashimatsuyama-shi, Japan; B.S. Kyoto University, 1987; M.S., 1989. Mathematics. *On certain periodic cohomologies of Chevalley groups*.



- Huan Tang, of Zhejiang, Peoples Republic of China; M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *Investigations of High-Tc Superconductors and Magnetic Thin Films.*
- Joseph Paul Taormino, of Mantoloking, N.J.; B.A. Cornell University, 1984. Biology. *Expression and Regulation of the Na, K-ATPase mRNAs in Chicken Skeletal Muscle and Rat Liver Cells.*
- Rafael Alberto Tenorio, of Lima, Peru; B.A. Universidad-de Lima, Peru, 1984; M.A. The Johns Hopkins University, 1986. Economics. *Multiple Unit Auctions with an Application to Foreign Exchange Markets.*
- Thomas Joseph Thomas, of Orange, Calif.; B.A. California State University-Fullerton, 1984; M.A. The Johns Hopkins University, 1989. Psychology. *Computer-Based Adaptive Mastery Testing in Multiple Content Areas: New Procedures for Mastery Testing.*
- Peter Alan Thompson, of Farmington, Conn.; B.S. Stanford University, 1985; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Dynamics of Fluids Near Solid Interfaces.*
- Anthony Eugene Ting, of Potomac, Md.; B.A. Amherst College, 1984. Biology. *A Phosphatidylinositol-specific Phospholipase C at the Surface of Density dependant Cells and its Potential Role in the Regulation of a Cell Growth.*
- Michael Carlton Tolley, of Brookline, Mass.; B.A. Swarthmore College, 1984; M.A. The Johns Hopkins University, 1987. Political Science. *State Constitutionalism in Maryland.*
- Henry Charles Topper, of Baltimore, Md.; B.A. University of Notre Dame, 1967. Political Science. *From the Commune to the Cultural Revolution: A Discussion of Party Leadership and Democracy in Lenin and Mao.*
- Mary Elizabeth Treadway, of Delmar, N.Y.; B.A. Hamilton College, 1985; M.A. The Johns Hopkins University, 1988. Psychology. *An investigation of juror comprehension of statistical proof of causation.*
- Jay Corell Tribby, of Winston-Salem, N.C.; B.W. Wesleyan University, 1981. Humanities. *Eloquence and Experiment: The Civil Gestures of Inquiry in 17th Century France and England.*
- Shwu-Chen Tsay, of Taipei, Taiwan, Republic of China; B.S. National Taiwan University, 1985; M.A. The Johns Hopkins University, 1990. Chemistry. *Efficient Organic Reactions and Polymerizations by Use of Organosilicon Reagents.*
- Jenn-Hwa Tu, of Taipei, Taiwan, Republic of China; B.S. National Taiwan University, 1977; M.A. Thammasat University, 1981; M.A. The Johns Hopkins University, 1985. Economics. *Direct Foreign Investment and Economic Growth: A Case Study of Taiwan.*
- Thomas Paul Urbach, of Portola Valley, Calif.; B.A. University of California, 1983; M.A. The Johns Hopkins University, 1987. Philosophy. *Questions of Meaning: A Discourse of Theoretic Alternative to Truth Conditional Semantics for the Interrogative Mood.*
- Martine Carmen Voiret, of Paris, France; Licence, Amiens University, 1978; M.A. Duke University, 1982; M.A. The Johns Hopkins University, 1986. French. *Inceste au siecle des Lumieres: un cas d'exception, Restif de la Bretonne.*
- Neal Hugh Walls, Jr., of Wooster, Ohio; B.A. The College of William and Mary, 1984; M.A. University of Virginia, 1986. Near Eastern Studies. *The Goddess Anat in Ugaritic Myth.*
- Naelong Wang, of Taipei, Taiwan, Republic of China; B.S. National Hua Tsing Hua University, 1980; M.A. The Johns Hopkins University, 1989. Chemistry. *Development of Organosilicon Compounds as Counterattack Reagents and Studies on Fundamental Properties of Silicon.*
- Jennifer Welchman, of Brooklyn, Conn.; B.A. University of Massachusetts, 1981; M.A. The Johns Hopkins University, 1984. Philosophy. *The Development of John Dewey's Moral Epistemology.*
- Xufeng Wu, of Shanghai, Peoples Republic of China; B.S. Shanghai Jiao Tong University, 1982. Biophysics. *A Quasi-elastic Light Scattering Study of Smooth Muscle Myosin.*
- Dongyuan Yao, of Suzhou, Peoples Republic of China; M.A. The Johns Hopkins University, 1990. Mathematics. *Higher algebraic K-theory of admissible abelian categories and localization theorems.*
- Qien Zhou, of Shanghai, Peoples Republic of China; B.S. East China Normal University, 1982; M.A. The Johns Hopkins University, 1989. Mathematics. *The Homology of the Double Loop Space of the Thom Space MU(2).*
- Nurith Zmora, of Herzlyia, Israel; B.A. Hebrew University of Jerusalem, 1975; M.A. The Johns Hopkins University, 1985. History. *Orphanages in Baltimore at the Turn of the Century: A Comparative Study.*







Office of The Registrar  
75 Garland Hall

August 1, 1991

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1991 Commencement Program:

1. Bachelor of Arts (Arts and Sciences) pages 25-28

Add: Inzune Kim Hwang, of Olney, Md.  
Meredith Alix Jacobson, of Columbia, Md.  
Jeremiah Michael Wolsk, of Westport, Conn.

Delete: Ali Bahadori  
Wonjae Choi  
Charles Morgan Fife III  
Dennis T. Hoban  
Kadijah Jones  
Adam Arshag Mazmanian  
Stephen Scott Milt

Matthew Raymond Panetta  
Ketul Jagdish Patel  
Gregory Lorne Platt  
Sherry Tonya Stallings  
James John Wesolowski  
Ken Yi Wong

2. Bachelor of Science in Biomedical Engineering (Engineering) page 29

Add: Richard Allen Ortt, Jr., of Parkville, Md.  
Eljim Patrick Tesoro, of San Diego, Calif.

Delete: Stephanie April Hayes

3. Bachelor of Science in Computer Science (Engineering) page 29

Add: Hal Joshua Eisen, of Dix Hills, N.Y.

4. Bachelor of Science in Electrical Engineering (Engineering) page 30

Delete: Anthony Phillip Caruso

Brian Maso

5. Bachelor of Arts (Engineering) page 31

Delete: Erika Lynne Francis

Nana Nicole Nkrumah

6. Bachelor of Music (Peabody) page 32

Delete: Sun Myung Choi  
Sharon Elizabeth Hack  
Sumi Kay

7. Associate of Science (Continuing Studies) page 33

Delete: Ambrose Edward Gmeiner II

8. Bachelor of Liberal Arts (Continuing Studies) page 33

Delete: Kevin J. Gardner

9. Master of Science (Continuing Studies) pages 34-39

Add: Mary Patricia Dye, of Hanover, Pa.; B.S. Millersville University, 1984. Education.

Delete: Lorena Altair Clanton  
Teresa Irene McCassell

Barton Fellows Walker III  
Diana Frey Zilahy

10. Master of Liberal Arts (Continuing Studies) pages 39-40

Delete: Linda Susan Belosevic

Roxie Johnson

11. Master of Administrative Science (Continuing Studies) pages 40-49

Delete: Marjorie Clarisa Greene  
Richard James Leppert  
Patricia Ann Murphy

Monica E. Larson  
Thomas J. Meier  
Carol Ann Rubino

12. Master of Music (Peabody) pages 50-51

Delete: Angela Lee Raspa

Richard Steven Roth

13. Artist Diploma (Peabody) page 52

Delete: Deborah Anne Fleisher

14. Master of Public Health (Hygiene and Public Health) pages 54-59

Delete: Malcom Nathaniel Joseph III  
Jordan Laub  
Roland Stephen Tewogbola Onawola

15. Master of International Public Policy (Advanced International Studies) page 60

Delete: Elizabeth A. Hogan

Rolando Mena Guerrero



16. Master of Arts (Advanced International Studies) pages 61-67

Add: Pamela S. Chasek, of New Providence, N.J.; B.A. Middlebury College, 1983; M.A. University of Miami, 1986.

Kenneth John Conboy, of Arlington, Va.; B.S. Georgetown University, 1986.

Christopher Bradley Donnegna, of Weston, Mass.; B.A. Boston College, 1986.

Bruce Walter Hammond, of Westport, Conn.; B.A. Amherst College, 1986.

Laura A. Hastings, of Cambridge, Mass.; B.A. Harvard College, 1982.

Alastair Gideon Rodd, of Rye, E. Sussex, England; B.Sc. Bristol University, 1987.

Alexander J. Skora, of Mountain Lakes, N.J.; B.A. Bucknell University, 1988.

Brian Paul Wynne, of Vestal, N.Y.; B.A. University of Scranton, 1980.

Delete:	Paal Aasmundrud	Franklin L. Lavin
	Hala Selim Al-Azar	Daniel Lederman Horwitz
	Cyrus M. Behbehani	Andrew Paul Leff
	Denise Ellen Brennan	Timothy James May, Jr.
	Davide V. Brocato	Sarah Anne McStravick
	William A. Clifford	Kirsten Anne Michener
	Marta Costanzo	Masahiro Michizoe
	PhieKing Dai	Mohamed Farid Mohamed
	William E. Dillihunt	John J. Moss
	Shai Ari Franklin	Joshua Paul Natkin
	Lee Martin Goldberg	PyongChul Oh
	Lawrence Lambert Hamlet	Timothy Levon Parker
	William Paul Harvey	Chandler Cyle Prosser
	Mohamud Ali Hashi	Nina Many Sonnenreich
	(Syed) Adnan Hassan	Thorunn Sveinbjarnardottir
	Daniel W. Hildreth	Mark William Whitcomb
	Anette Kaminski	Ned White
	Moazzam Ahmed Khan	Timothy Edward Wilder
	Dennis G. LaComb	Koichi Yamaguchi

17. Master of Mechanical Engineering (Engineering) page 69

Add: Gina Caruso, of Hastings-on-Hudson, N.Y.; B.S.E. Duke University, 1987.

18. Master of Science (Engineering) pages 69-85

Add: David Eugene Haupt, of Severna Park, Md.; B.A. The Johns Hopkins University, 1972; M.A.S., 1979. Computer Science.

John Michael Italiano, of Staten Island, N.Y.; B.A. New York University, 1985. Computer Science.

Scott Walker Kirvan, of Concord, Mass.; B.S. Columbia University, 1986. Computer Science.

Thang Quoc Le, of Gaithersburg, Md.; B.S.E.E. George Washington University, 1988. Electrical Engineering.

Wayne Elton Smith, Jr., of Columbia, Md.; B.S. University of Oklahoma, 1968; M.S. University of Maryland, 1973; M.S. The Johns Hopkins University, 1983. Applied Mathematics.

Delete: Shivanand Basappa  
Paul Francis Batchelor  
Dung Quang Bui  
Robert Daniel Dahm

Louis DiStefano  
Ellen Carroll Dukes  
Kana Kitazawa

19. Master of Science in Engineering (Engineering) pages 86-87

Add: Kristen D. Farrow, of Rochester, N.Y.; B.A. Bowdoin College, 1984. Mathematical Sciences. Neural Network Modeling and Nonlinear Optimization.

Delete: Paroo Dolar Koya

Jason Seth Rothman

20. Master of Arts (Arts and Sciences) pages 88-92

Add: Edward Charles Larson, of Charlottesville, Va.; B.A. University of Chicago, 1989. Physics and Astronomy. Design and Preparation of the SVX Silicon Microstrip Detector for the 1991 Top Quark Search at Fermilab.

Delete: Edward H. Sparrow

21. Doctor of Philosophy (Advanced International Studies) page 97

Delete: Ronald D. Asmus

22. Doctor of Philosophy (Arts and Sciences) pages 105-109

Add: Mohamad Elhage, of Beirut, Lebanon; M.A. The Johns Hopkins University, 1988. Economics. Monetary Policy and the Financial Sector's Role in Economic Development: A Case Study of Saudi Arabia.





